User Manual
e-Sikshak Release 2

ELELTECH

e-Learning and e-Learning Technologies (ELELTECH)
Centre for Development of Advanced computing, Hyderabad

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1. User Manual – Course Organizer

Introduction

Course organizer module is used to organize course into modules and topics. Each course is divided into modules and each module is further sub divided into topics. Dividing the course into modules and topics provide greater flexibility in arranging the course material and course delivery. Following are the functionalities provided under this module. It allows the arrangement and rearrangement of the content into courses, modules and topics. This ordering flexibility is very essential to bring in the best possible pedagogy into the whole learning experience of the learner. SCORM Compliant course also can be uploaded with Course organizer module.

Main menu of Course Organizer

Main objective of this page is to display the options for managing course, modules and topics. The main menu of course organizer has three links.

- Course Management
- Module Management
- Topic Management

With these three menu links, there is one more link ***"Import SCORM Compliant course"*** on course organizer page to upload SCORM Compliant course. Only administrator has privilege to upload the SCORM Compliant course. Instructor and learner can only view the course material.

Fig 1. Main menu of Course Organizer

Course Management menu

Main objective of this page is to display the options for adding, updating, reporting and deleting course details. The main menu of course management has three links.

- Add Course ==> To create new course
- Update Course ==> To update the existing course details
- Delete Course ==> To delete the existing course
- Course Report ==> To display the course details

Fig 2. Course Management Menu

Add Course

The main objective of this page is to create a new course. To create a course, course Name, duration in weeks, description and prerequisite details need to be entered. All the fields are mandatory. Information about each field is as under.

Course Name field accepts text, maximum of 180 characters. Duration field accepts number, maximum of 2 characters. Description field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters.

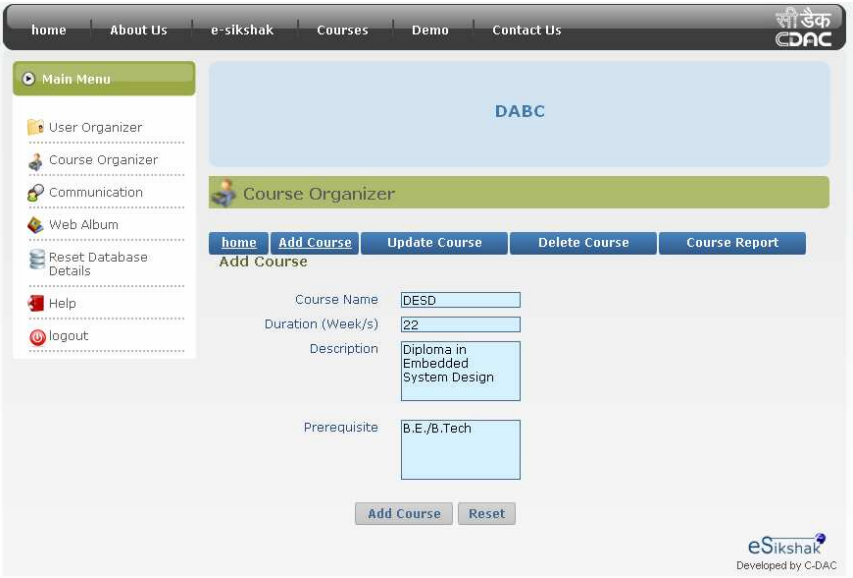


Fig 3. Add Course

After entering the details, clicking on Add Course button creates a new course with given parameters and confirmation for the same can be seen as under

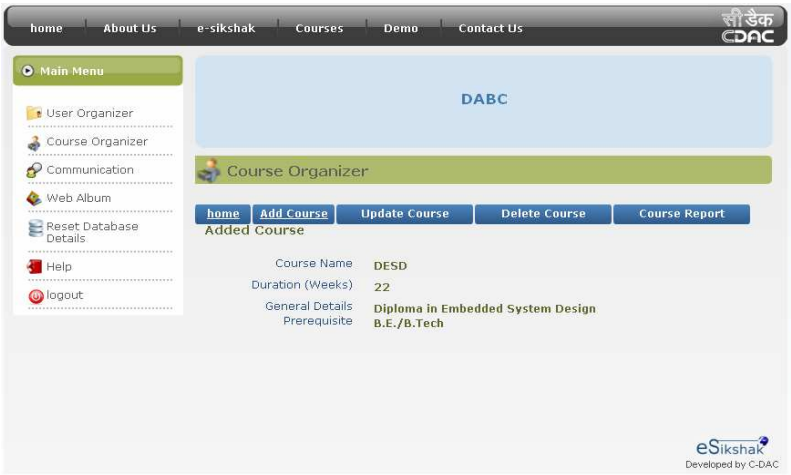


Fig 4. Confirmation Screen

Course selection for updating an existing course

Main objective of this page is to display the existing course and allow the user to select the course for updating the course details

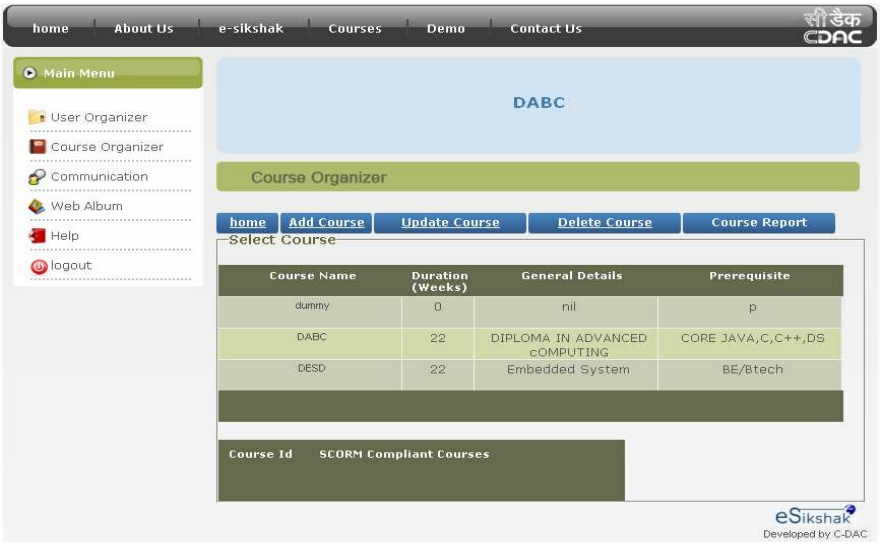


Fig 5. Course selection for updating an existing course

Update Course

The main objective of this page is to allow the user to update the course details. Course Name field accepts text, maximum of 180 characters. Duration field accepts number, maximum of 2 characters. Description field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters. After updating the course details, clicking on Update Course button updates the course with given parameters and confirmation for the same can be seen.

Fig 6. Update Course

After entering the details, clicking on Update Course button updates the course with given parameters and confirmation for the same can be seen as under

Fig 7. Confirmation

Course selection for deleting an existing course

Main objective of this page is to display the existing course and allow the user to select the course for deleting. Cascade option, deletes the modules and topics belonging to the selected course. On clicking delete button, selected course can be deleted.

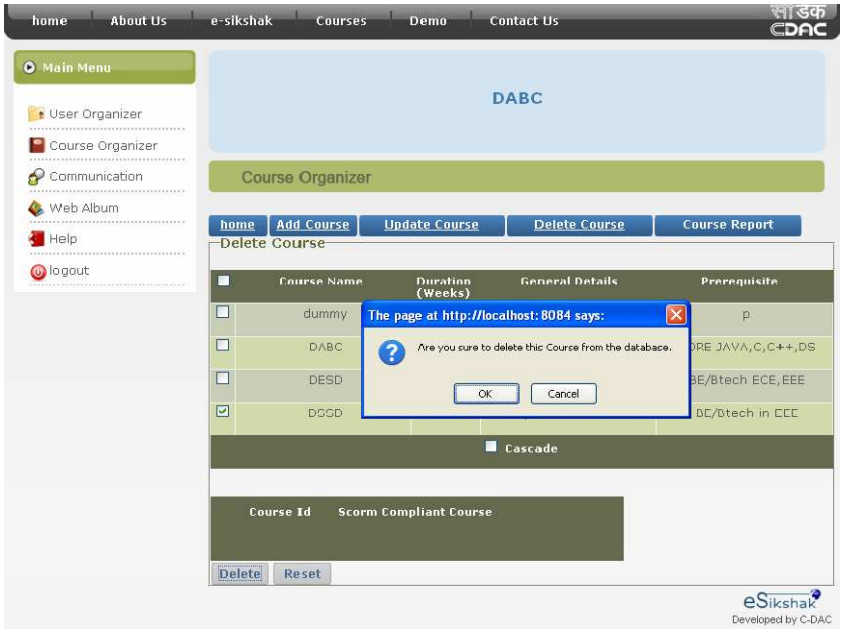


Fig 8. Course Details

After clicking on Delete button the selected course can be deleted and confirmation for the same can be seen as under

Fig 9. Confirmation

Course Report

The main objective of this page is to display the details of existing course. On clicking course id, the course details can be seen.

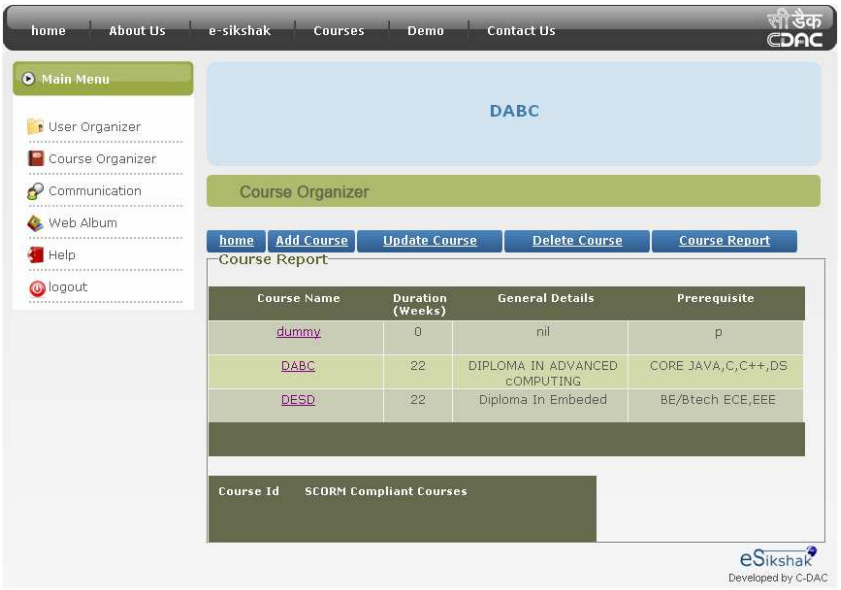


Fig 10. Course Report

On clicking the course id, the modules and topics under the course can be seen.

Module and topic Details

The main objective of this page is to display the modules and topics pertaining to the course.

Fig 11. Module and topic Details

Module Management menu

The objective of this page is to display the options for adding, updating, reporting and deleting module details. The main menu of course management has three links.

- Add Module ==> To create new module
- Update Module ==> To update the existing module details
- Delete Module ==> To delete the existing module
- Module Report ==> To display the module details

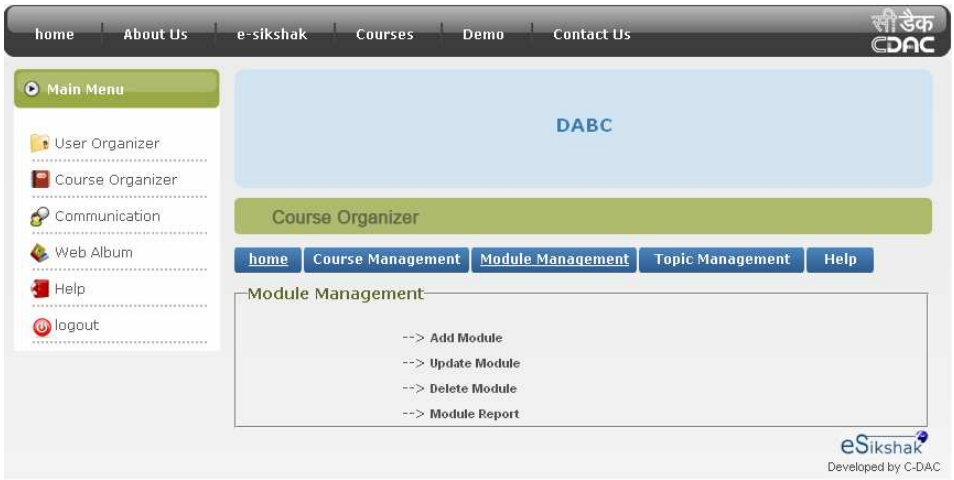


Fig 12. Module Management menu

Add Module - for adding a new module

The main objective of this page is to display the course details. On clicking the course id, the interface to add the module details can be seen.

Fig 13. Course Report- for adding a new module

Clicking on the course hyper link will display the interface to add a module to that course. To create a new module, module Name, duration in weeks, general details and prerequisite details need to be entered. All the fields are mandatory. Information about each field is as under.

Module Name field accepts text, maximum of 180 characters. Duration field accepts number, maximum of 2 characters. General details field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters.

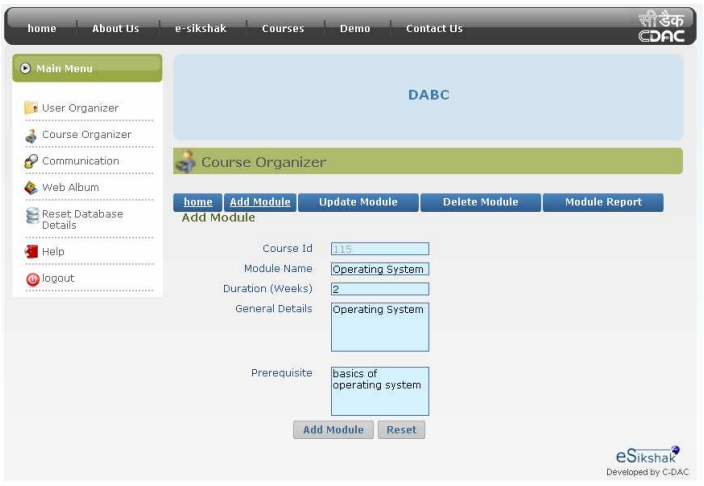
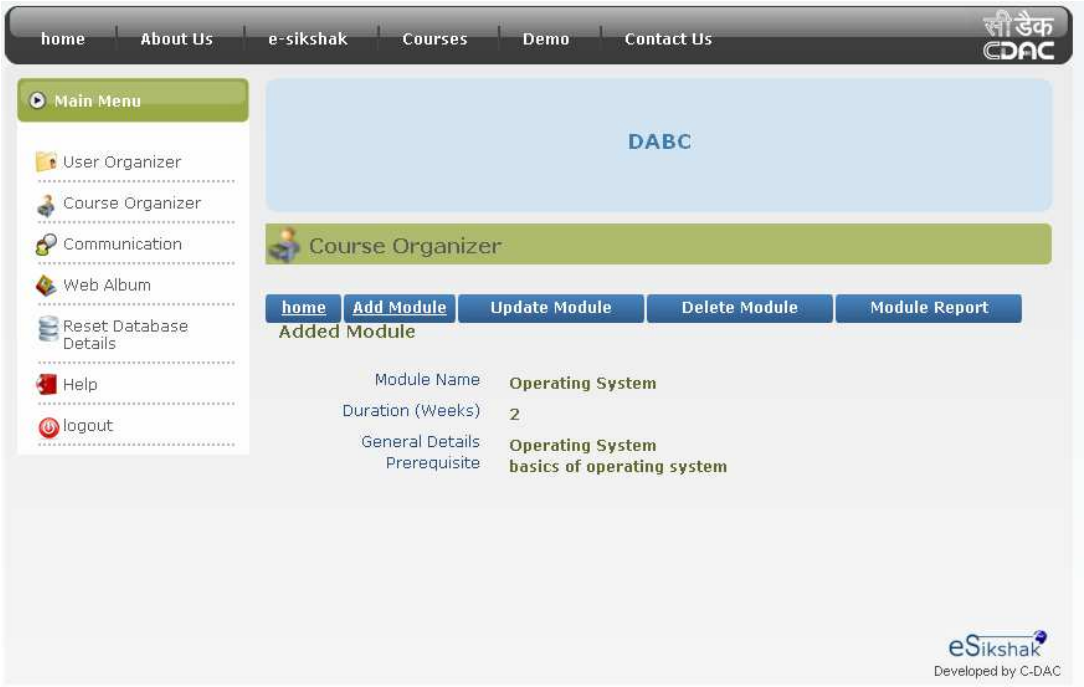


Fig 14. Add Module



After entering the details, clicking on Add Module button creates a new module with given parameters and confirmation for the same can be seen

Updating a module

Main objective of the page is to display the existing modules and allow the user to select the module for updating the module details

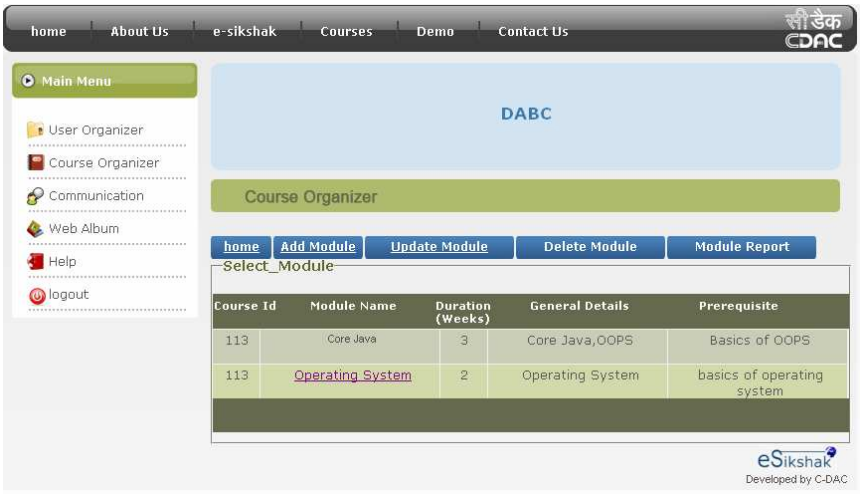


Fig 15. Module selection for updating an existing module

Update Module

The main objective of this page is to allow the user to update the module details. Module Name field accepts text, maximum of 180 characters. Duration field accepts number, maximum of 2 characters. General details field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters. After updating the module details, clicking on Update course button updates the module with given parameters and confirmation for the same can be seen.

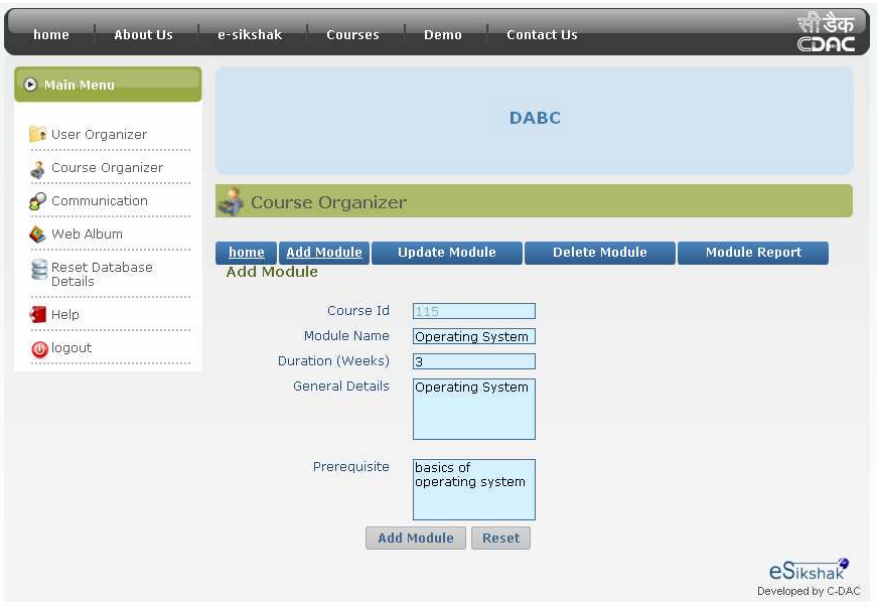


Fig 16. Update Module

After entering the details, clicking on Update module button updates the course with given parameters and confirmation for the same can be seen as under

Fig 17. Confirmation

Deleting a module

Main objective of the page is to display the existing module and allow the user to select the module for deleting. Cascade option, deletes the modules and topics belonging to the selected course. On clicking delete button, selected module can be deleted

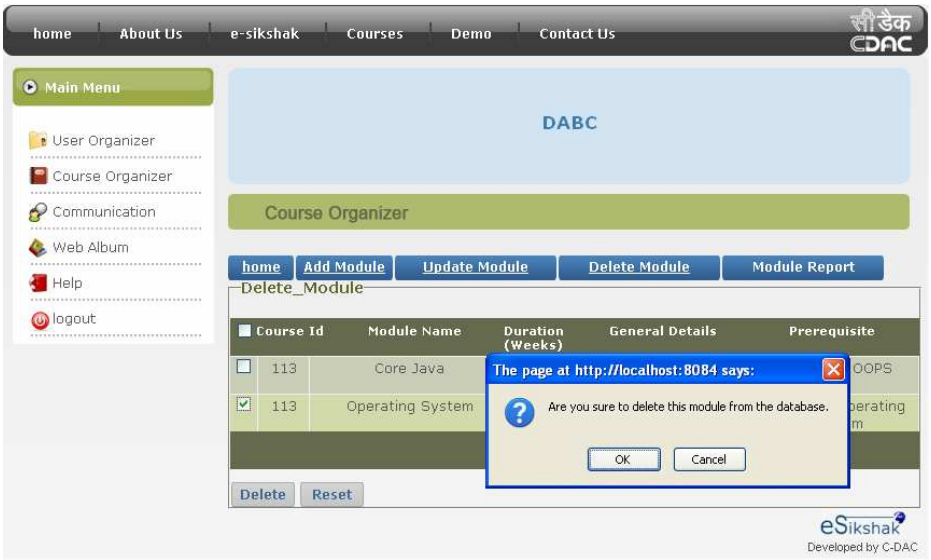


Fig 18. Module selection for deleting an existing module

After clicking on Delete button the selected course can be deleted and confirmation for the same can be seen as under

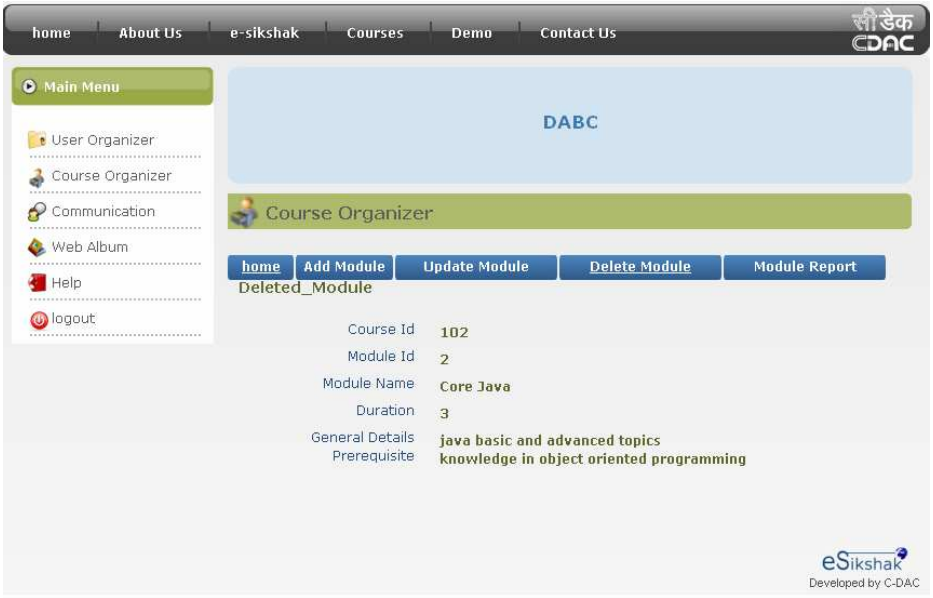


Fig. 19 Delete Module

Module report

The main objective of this page is to display the details on existing module. On clicking module id, the module details can be seen.

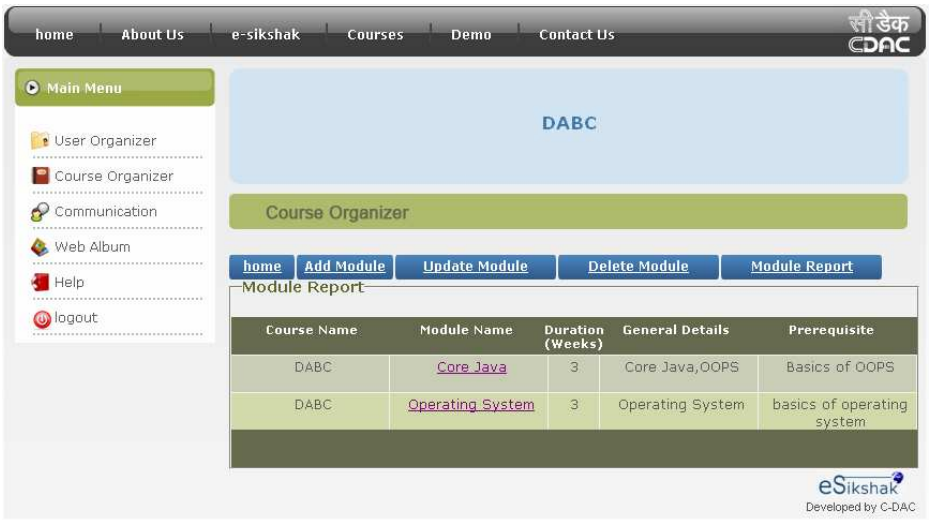


Fig 20. Module Report

On clicking the module id, the topics under the course can be seen.

Module and topic Details

The main objective of this page is to display the details of topics for selected module.

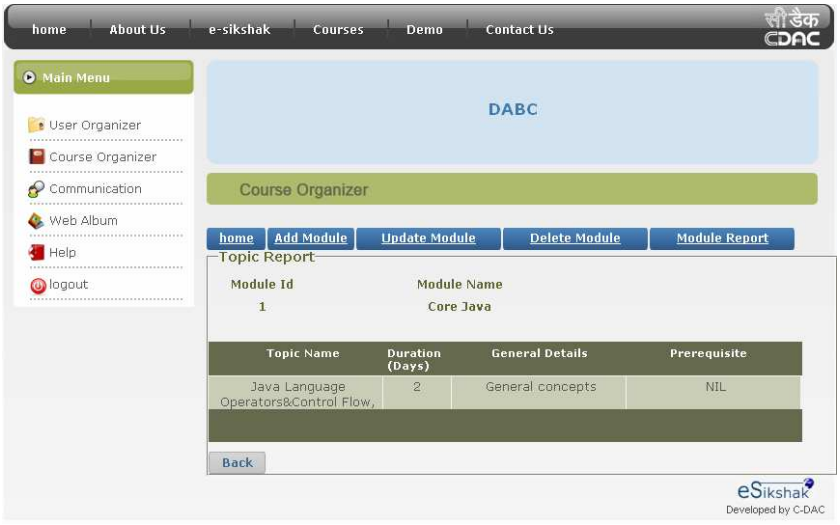


Fig 21. Module and topic Details

Topic Management menu

The objective of this page is to display the options for adding, updating, reporting and deleting Topic details. The main menu of course management has three links.

- Add Topic ==> To create new Topic
- Update Topic ==> To update the existing Topic details
- Delete Topic ==> To delete the existing Topic
- Topic Report ==> To display the Topic details

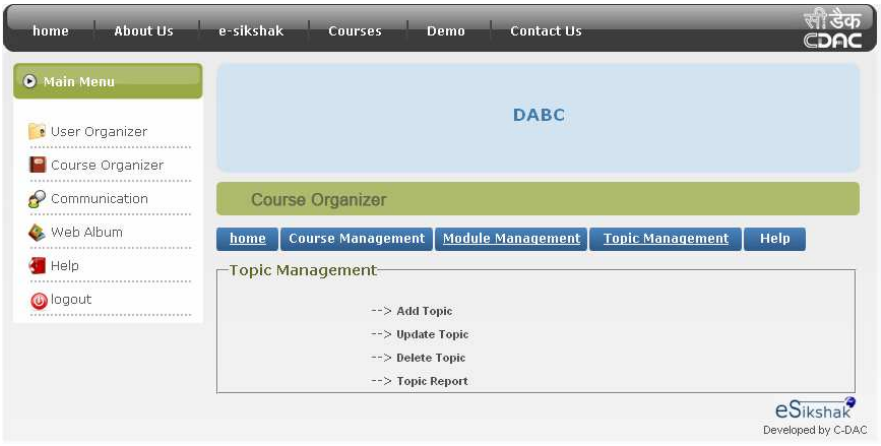


Fig 22. Topic Management menu

Adding a new Topic

The main objective of this page is to display the module details. On clicking the module id, the interface to add the topic details can be seen.

Fig 23. Course Reporting- for adding a new module

Clicking on module id hyperlink will allow the user to enter new topic details to that module. To create a new topic, topic Name, duration in days, general details and prerequisite details need to be entered. All the fields are mandatory. Information about each field is as under.

Topic Name field accepts text, maximum of 175 characters. Duration field accepts number, maximum of 2 characters. General details field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters.

Fig 24. Add Topic

After entering the details, clicking on Add topic button creates a new topic with given parameters and confirmation for the same can be seen

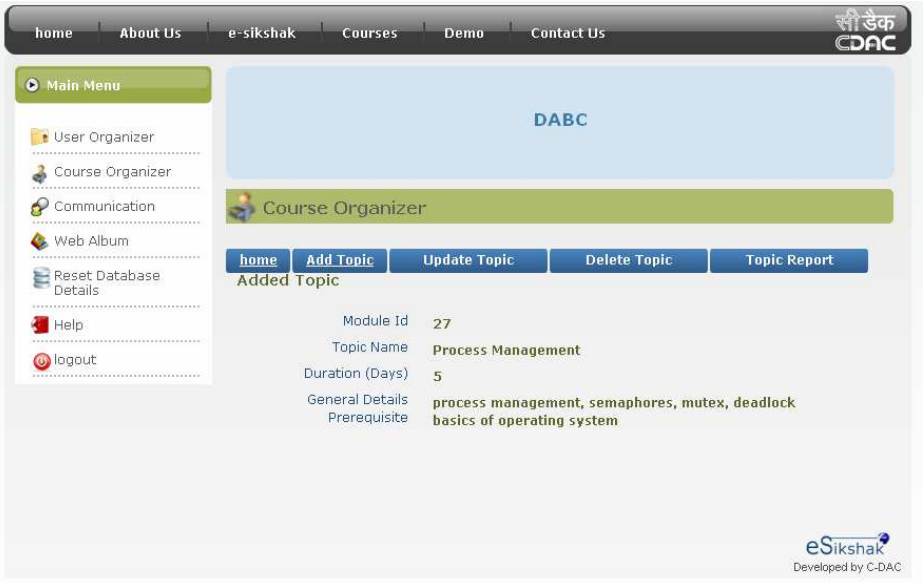


Fig 25. Confirmation

Updating a topic

Main objective of this page is to display the existing topics and allow the user to select the topic for updating the topic details.

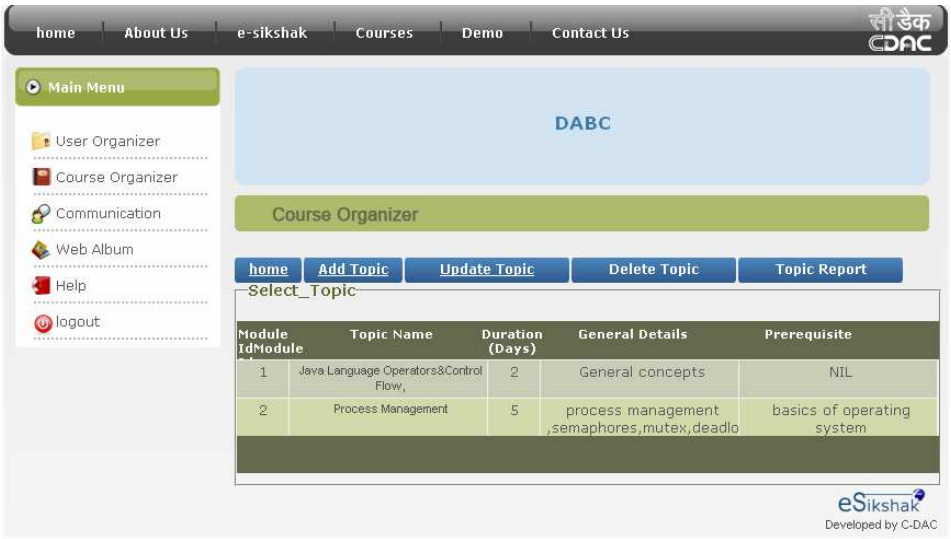


Fig 26. Topic selection for updating an existing topic

Update Topic

The main objective of this page is to allow the user to update the topic details. Topic Name field accepts text, maximum of 175 characters. Duration field accepts number, maximum of 2 characters. General details field accepts text, maximum of 225 characters and prerequisite field accepts text, maximum of 100 characters. After updating the topic details, clicking on Update topic button updates the topic with given parameters and confirmation for the same can be seen

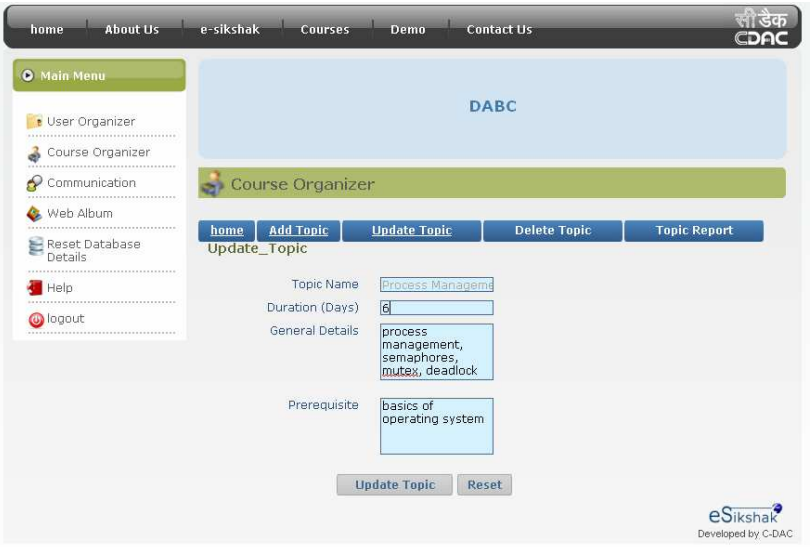


Fig 27. Update Topic

After entering the details, clicking on Update topic button updates the topic with given parameters and confirmation for the same can be seen as under

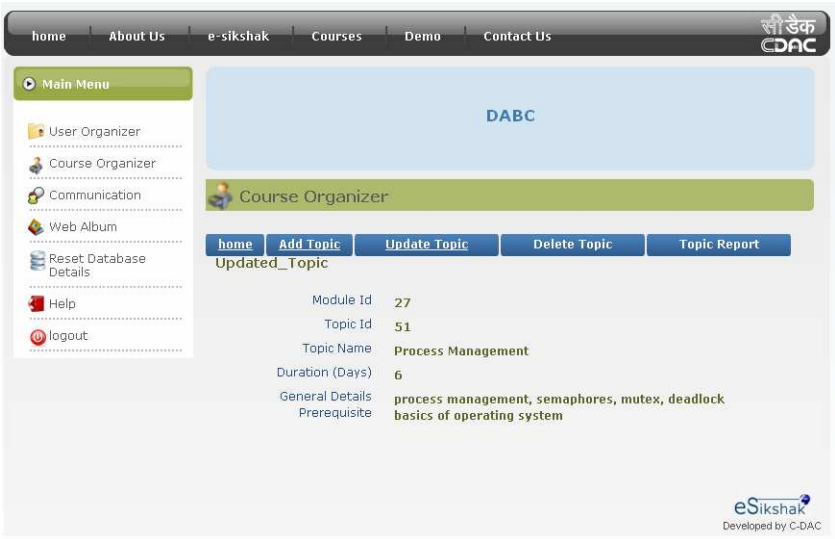


Fig 28. Update Topic

Deleting a topic

Main objective of this page is to display the existing topic and allow the user to select the topic for deleting. On clicking delete button, selected topic can be deleted

Fig 29. Topic selection for deleting an existing topic

After clicking on Delete button the selected topic can be deleted and confirmation for the same can be seen as under.

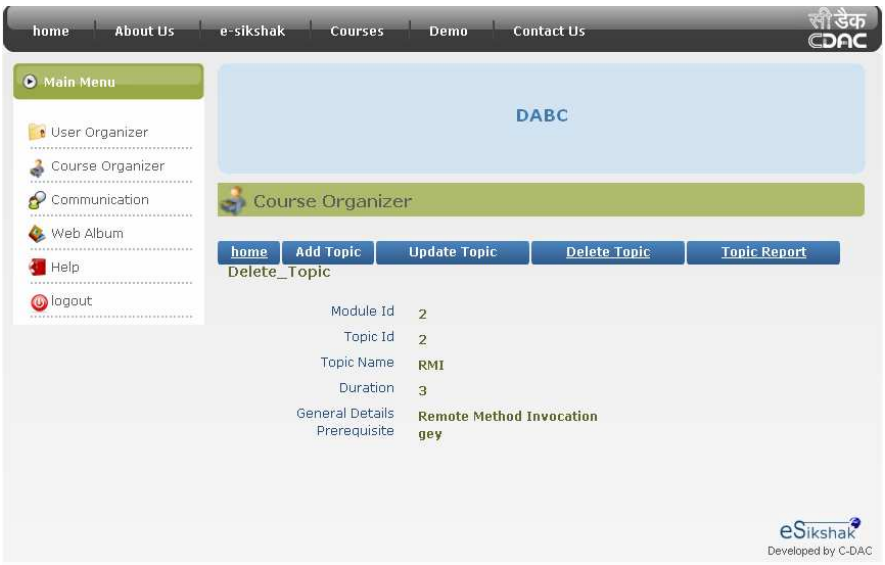


Fig 30. Delete Topic

Topic Report

The main objective of this page is to display the details on existing topic.

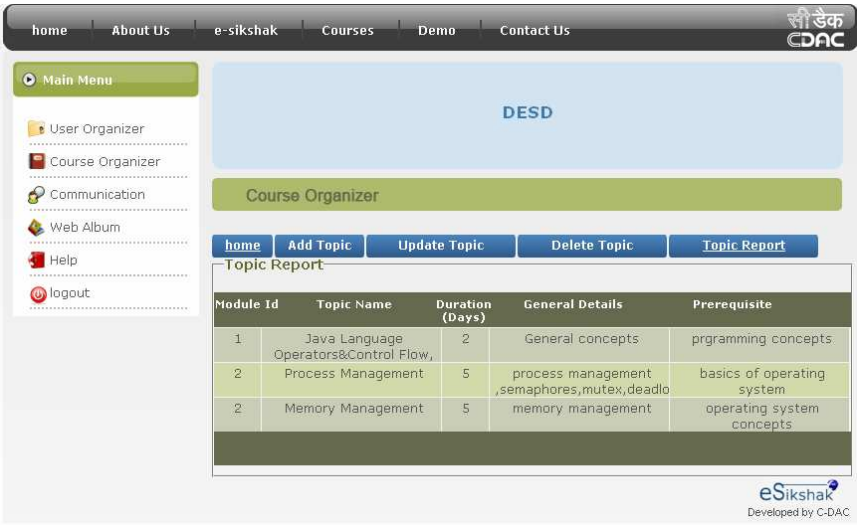


Fig. 31 Topic Report

Import SCORM Compliant course

Main objective of this page is to upload the SCORM Compliant course. To upload SCORM Compliant course, course name and zipped SCORM Compliant course package details need to be entered. All the fields are mandatory. (Fig 31)

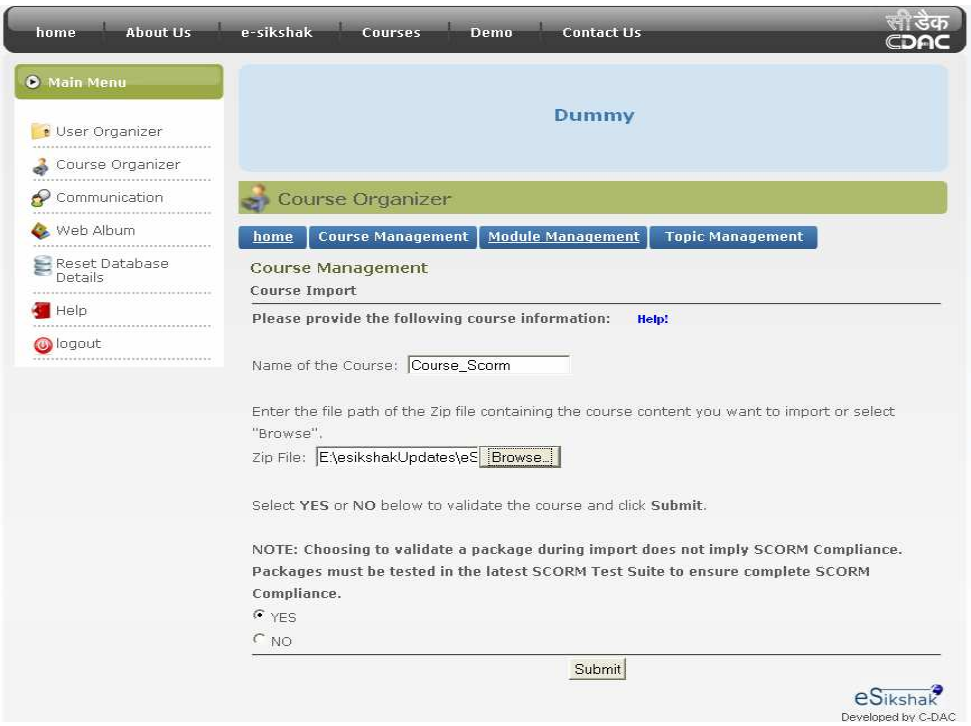


Fig 32.Upload SCORM Compliant course

When administrator submits this form the system displays the status of import i.e. whether the course has been imported successfully or not on the page. (Fig 32)

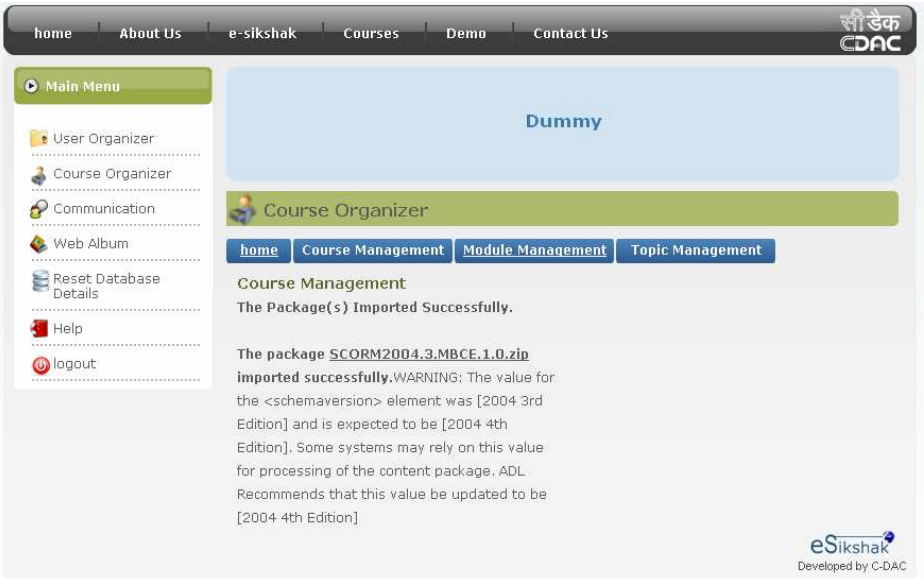


Fig 33.Status of imported course (package)

2. User Manual – User Organizer/User Management

Brief Module Description

User Management deals with User Registration & Login Process. Once the user enters into the portal, he/she has the option of registering into the e-Learning environment. The user has to enter login information & personal details like User name, first name, Last Name, Age, Gender, Address Details (like Flat details, Name of premise, Area detail & Road detail), Country , State, City, Pin Code, Mobile, Telephone Number(office/res), e-mail id. Fields marked with * are compulsory fields. Appropriate alerts appear helping user to enter valid data. Once the user submits this information; a page gets generated with that he/she will be given password through email to access course. If by any chance the user is unable to login with given password, he/she can mail to administrator of the e-Learning environment, through a link from the home page of the e-Learning portal. User will have an option for changing the password and updating the personal details entered while registration.

- An administrator has the privilege of adding, deleting, updating user information. He assigns a role & course to the user. He can also view reports.
- An Instructor can update his personal details, change password & view user reports.
- A learner can update his personal details & change password.

Following are the various forms of the module:

- Add User : This form helps administrator to add user details.
- Assign Role : This form enables administrator to assign role, course & password to a user.
- Delete User : Administrator has the privilege to delete user details.

- View User : This form enables an administrator & instructor to view reports about user details with selected fields.
- Update Personal Details : This form enables a user to update personal details entered during registration.
- Change Password : This form facilitates a user to change original password.

Features of the Module

Following are the features of User Management module in various user modes:

Administrator

a) Creation, Updation, Deletion and Viewing User Reports.
b) Assigning roles, course & initial passwords to the users.

Instructor

a) Updation of personal profiles & password.
b) Viewing User Reports

Learner

a) Registration for the courses.
b) Updation of personal profiles and password.

Description of the functionality

Registration Form

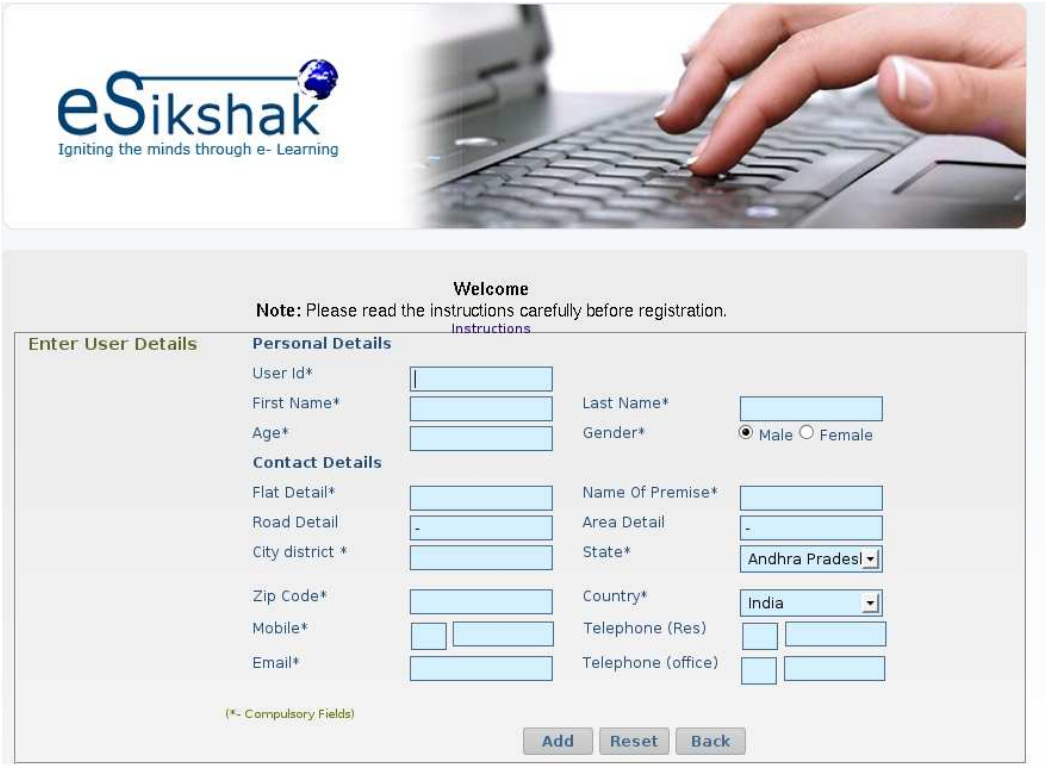


Fig 1: Showing registration form

Objective: This form enables the users to register into the tool by entering minimum personal details.

1. **User Id**: User Id serves as a Login Id for the user. Henceforth you will be identified with this Id in the eSikshak environment. So you are requested to remember your user id. The field accepts maximum 20 characters. User Id consisting of any of the following characters is invalid: !#$^&*/()+{}[]?;:<>,-='
2. **First Name:** Please enter your first name in this field. It accepts maximum 30 characters.
3. **Last Name:** Please enter your surname in this field. It accepts maximum 30 characters.

4. **Age:** Please enter your age in this field. It accepts maximum 3 numbers.
5. **Sex:** Select your gender with the help of radio button provided.
6. **Flat Details:** Please enter your Flat no/ House no. in this field.
7. **Name of premise:** Please enter your premise address in this field.
8. **Road Detail:** Please enter additional information of your address like road detail.
9. **Area Detail:** Please enter Area address in this field.
10. **City/District:** Please enter your city in this field. It accepts maximum 20 characters.
11. **State:** Please select the State of your residence from the given options.
12. **Zip Code:** Please enter your city pin code in this field. It accepts only 6 numbers.
13. **Country:** Please select your country from given options.
14. **Mobile:** Please enter your mobile no. in this field. First field accepts country code (4 numbers max.) & second accepts mobile no (10 numbers max.)
15. **Telephone Numbers (off):** Please enter your office telephone number. It is divided into STD code (5 numbers max.), telephone number (9 number max.)
16. **Telephone Numbers (res):** Please enter your residence telephone number. It is divided into STD code (5 numbers max.), telephone number (9 number max.)
17. **e-Mail:** Please enter your correct email id in this field. All further important communication will be sent to this e-mail id.
18. **Submit:** After entering all the information submit your form by pressing this button.
19. **Reset:** It helps you to reset your data.
20. **Back:** It enables you to navigate to the eSikshak Home Page.

Note

- You are requested to fill up the registration form with correct information.
- Fields are marked with * are compulsory fields.
- You can update your registration profile once password is assigned to you.

User Management Main Page (Administrator mode)

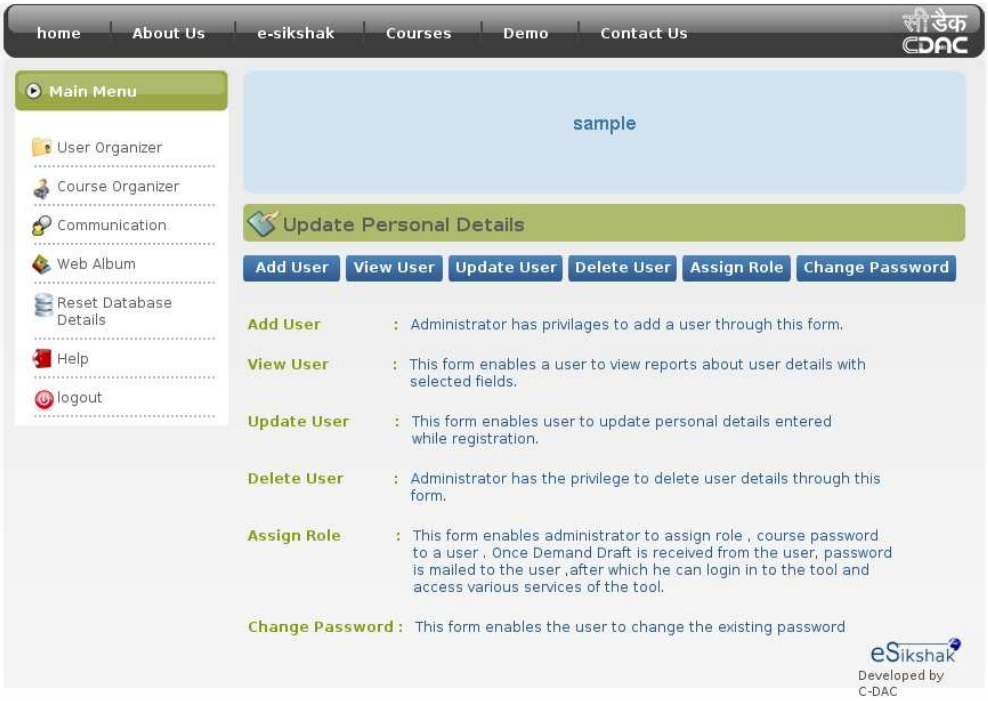

home
About Us
e-sikshak
Courses
Demo
Contact Us
Main Menu
User Organizer
Course Organizer
Communication
Web Album
Reset Database Details
Help
logout
sample
Update Personal Details
Add User
View User
Update User
Delete User
Assign Role
Change Password
Add User : Administrator has privilages to add a user through this form.
View User : This form enables a user to view reports about user details with selected fields.
Update User : This form enables user to update personal details entered while registration.
Delete User : Administrator has the privilege to delete user details through this form.
Assign Role : This form enables administrator to assign role , course password to a user . Once Demand Draft is received from the user, password is mailed to the user ,after which he can login in to the tool and access various services of the tool.
Change Password : This form enables the user to change the existing password
eSikshak
Developed by C-DAC

Fig 2 : shows user management main page in Administrator mode

Objective: This form shows the various privileges available for an Administrator of the course.

Add User: This form is similar to the registration form. In case a user is unable to register himself/herself, he/she can send a request to the Administrator. The administrator has the privilege of adding or registering user into course.

Assign Role: Once the user registers into the eSikshak, it's the administrator's responsibility to assign password to the user.

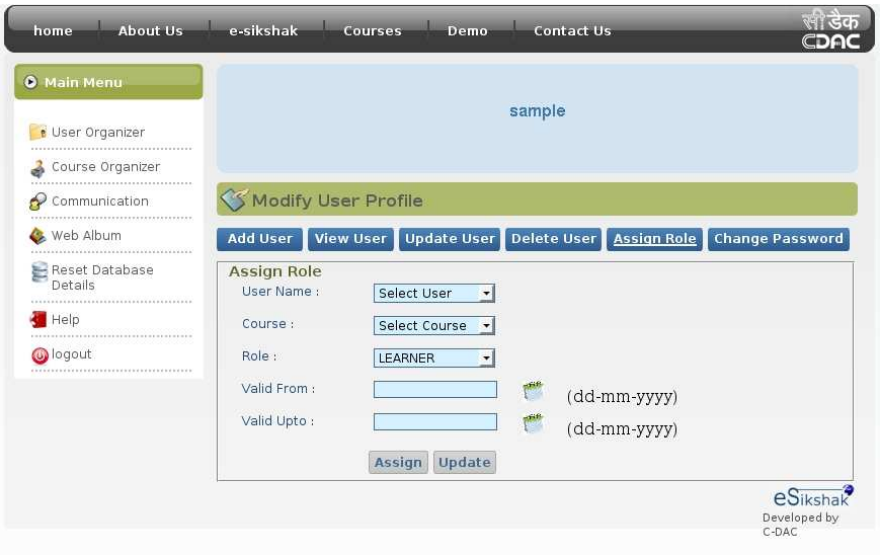


Fig 3: shows the form to assign role & password to a user

The administrator needs to select the user id, course, Role (Instructor/Learner), the date from which the login id is valid & the date up to which the login is valid. After submitting the data a screen appears which displays the password. Thus password is generated.

Update User: This form helps the administrator to update user details.

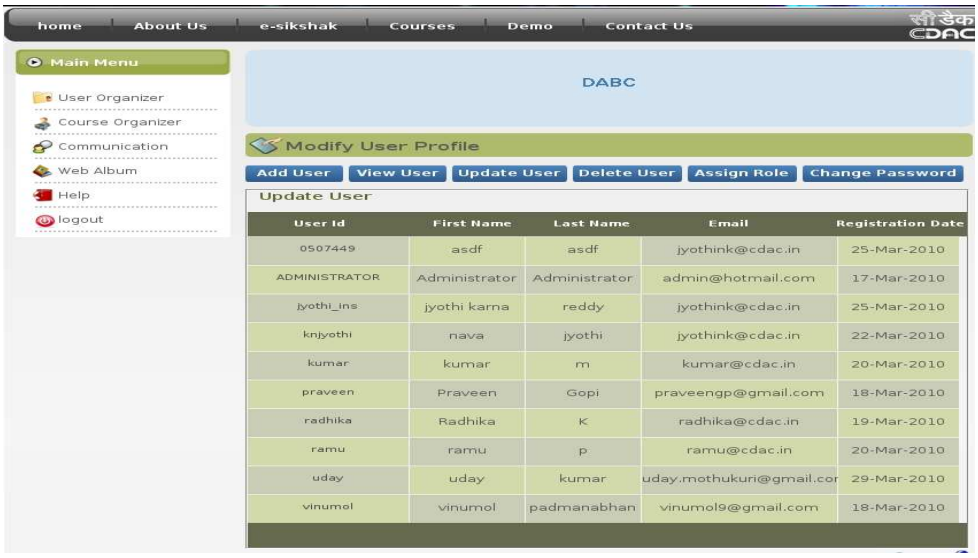


Fig 4: shows user selection page for updation

He/she can select the user whose details are to be updated.

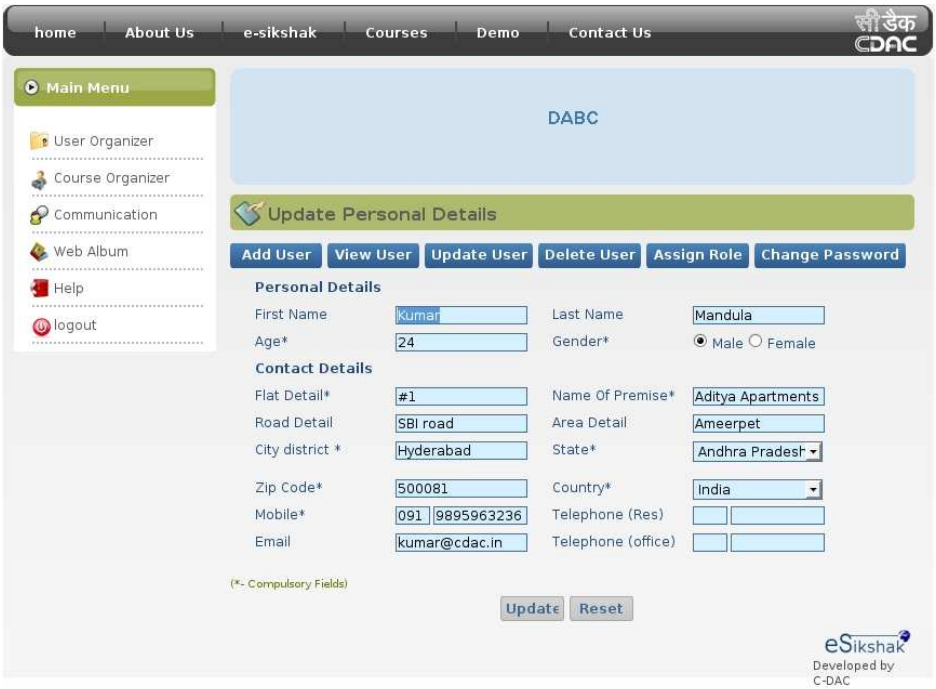


Fig 5: shows updation page

Update button helps you in submitting the updated data. Reset is used to undo the changes. Once the data is successfully updated, you will get the confirmation of the same, as shown in figure.

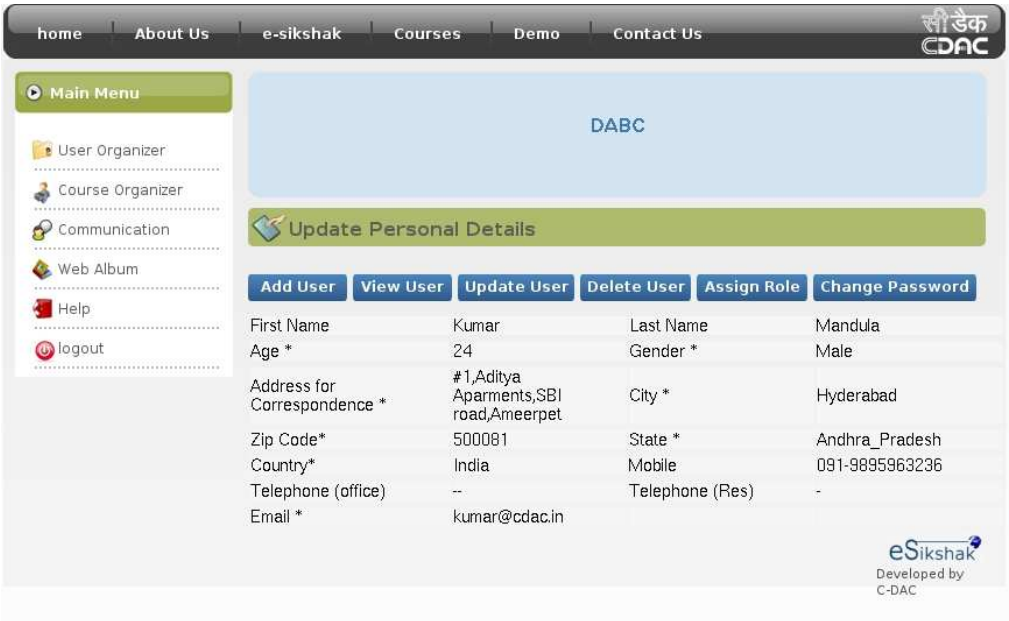


Fig 6: shows confirmation message after successful updation

Delete User: This form helps the administrator to delete the selected user.

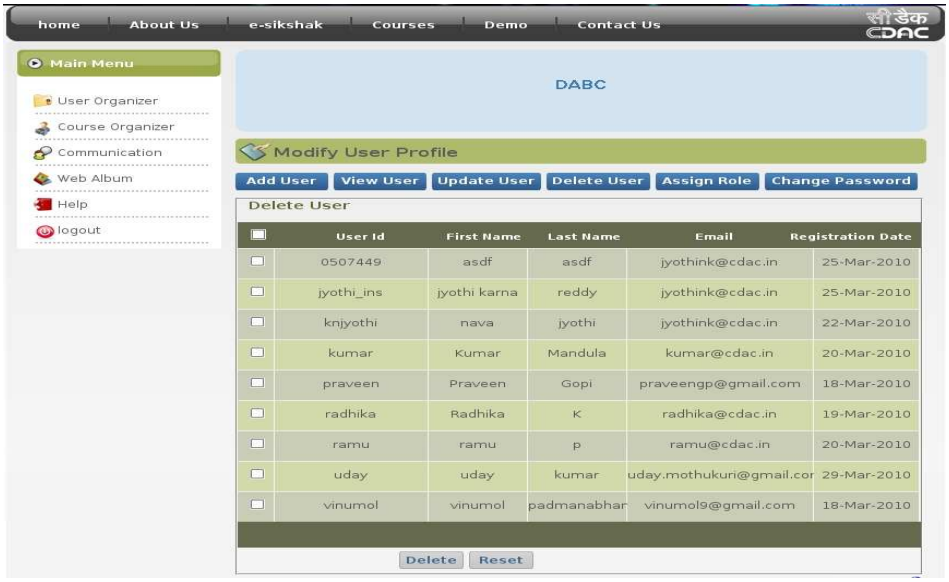


Fig 7: shows user selection page for deletion

View User: This option helps administrator in viewing the report of user details. Administrator can view the report of all registered users or the users belonging to a particular course. If administrator wish to view the report of all registered users, select the check box 'All Registered Users' and press the 'Next' button.

To view the report based on a particular course, select the course from the drop down menu & press 'Next'.

Fig 8: shows the main page to view reports

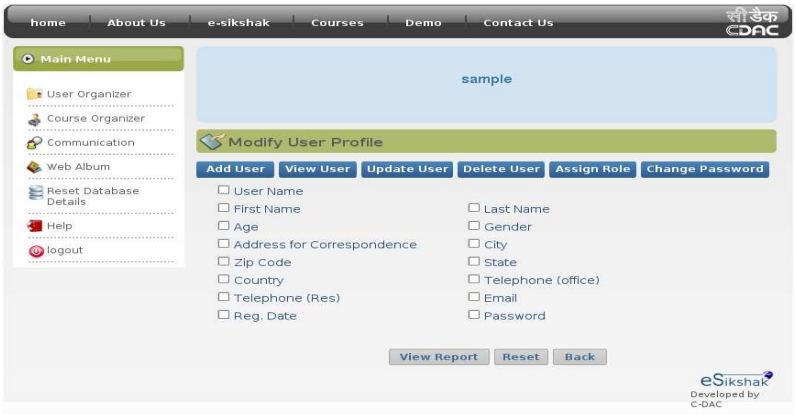


Fig 9: shows selection of fields to view reports

Administrator can view the report with the selected fields and can select maximum 4 options.

Fig 10: shows the report

Change Password: This option allows user to change his/her password.

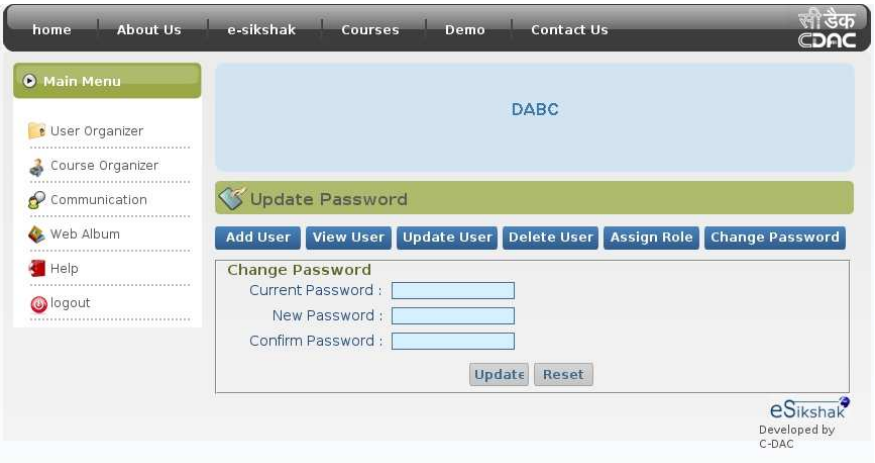


Fig 11: shows the form to change password

User Management Main Page(Instructor Page) :

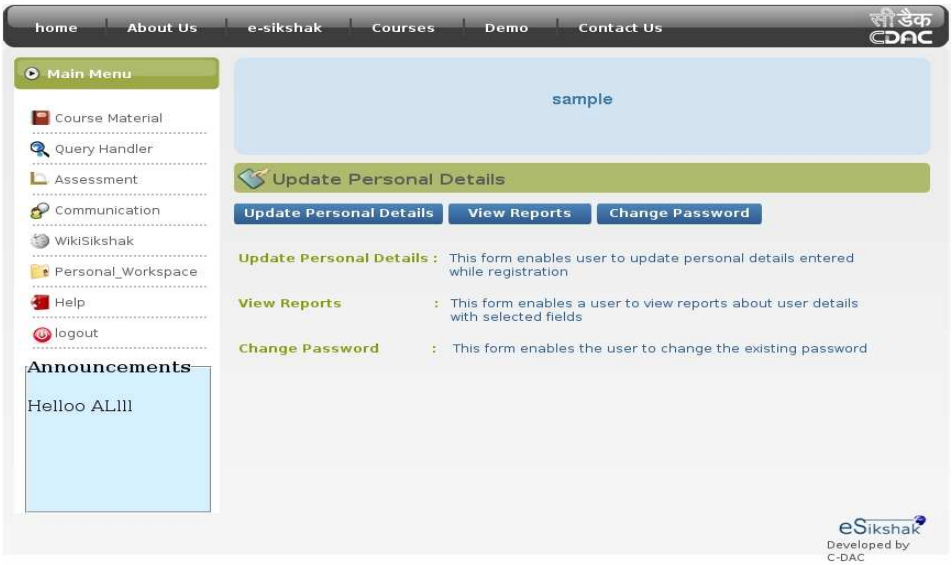


Fig : shows the main page in instructor mode

The instructor has the privilege of updating personal details, changing his/her password & viewing reports.

Update Personal Details (Instructor): This option allows user to change his/her own personal details

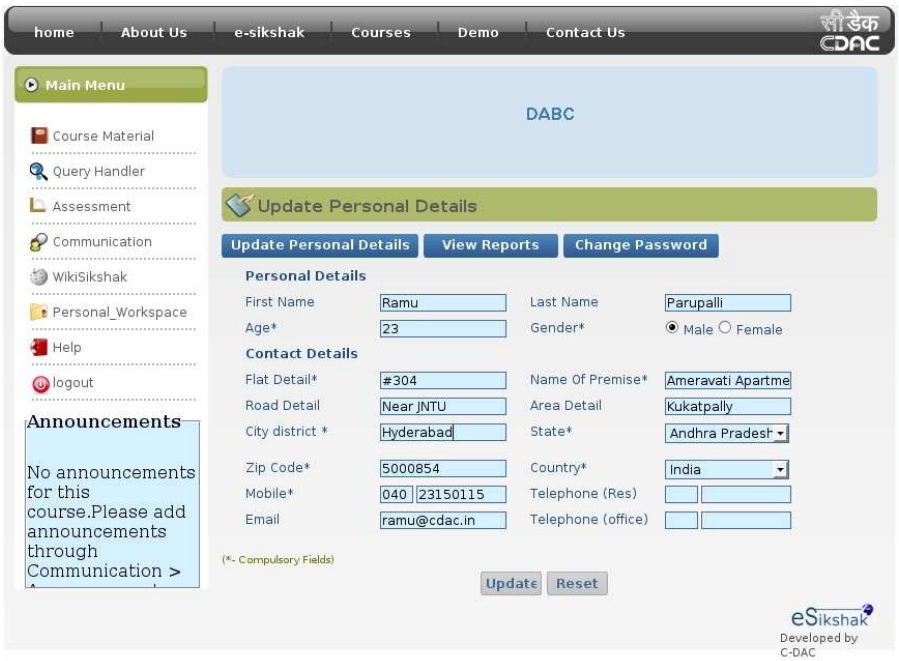
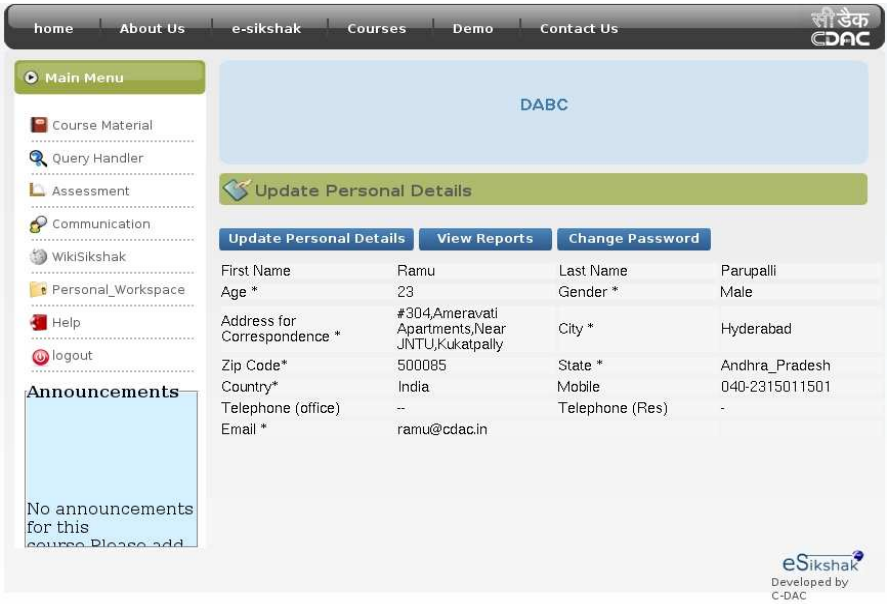


Fig : shows the update details page (Instructor/Learner)

Update button helps you in submitting the updated data. Reset is used to undo the changes. Once the data is successfully updated, you will get the confirmation of the same, as shown in figure.



View Reports: This option allows instructor to view the reports of users in particular course.

To view the report based on a particular course, select the course from the drop down menu & press 'Next'.

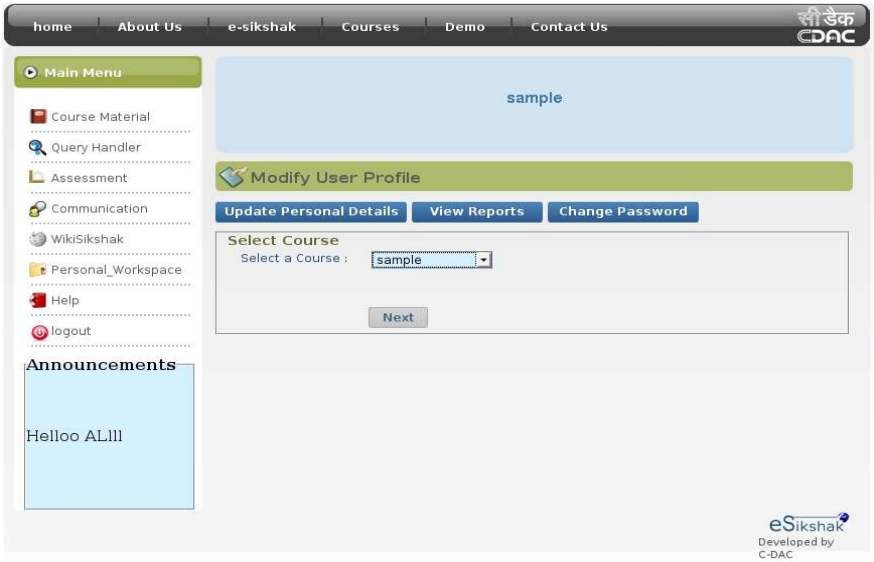


Fig : shows the main page to view reports (Instructor)

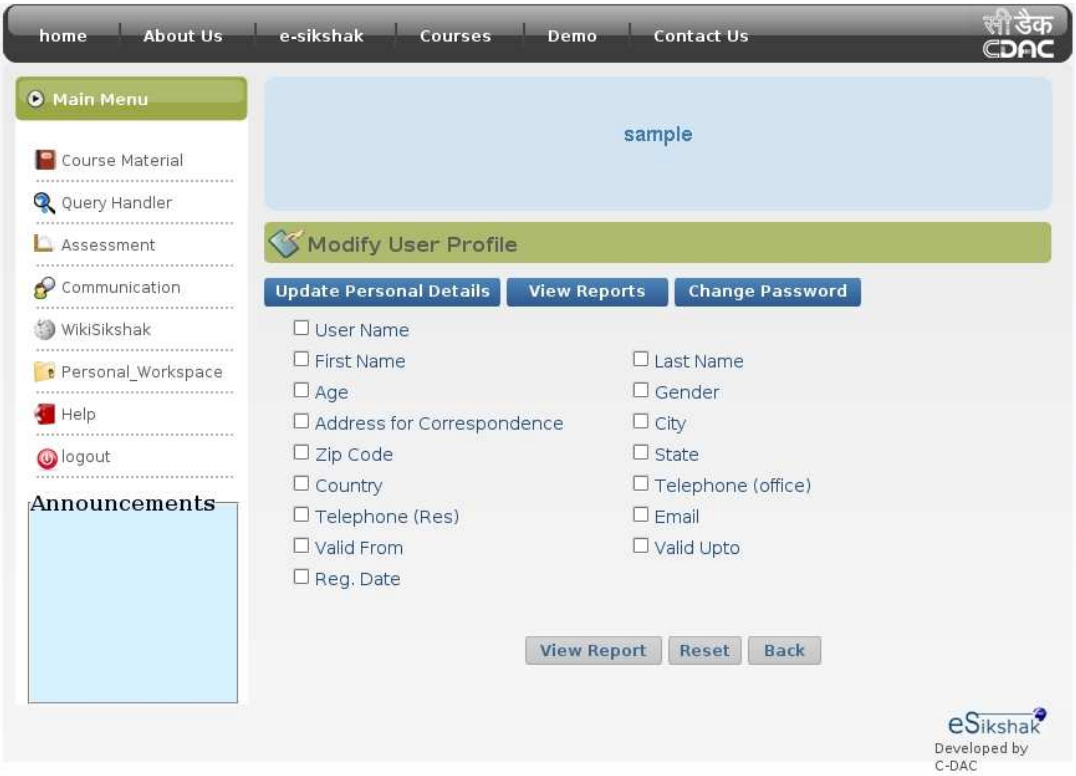


Fig : shows the options page to view reports (instructor)

Change Password: This option allows user to change his/her password.

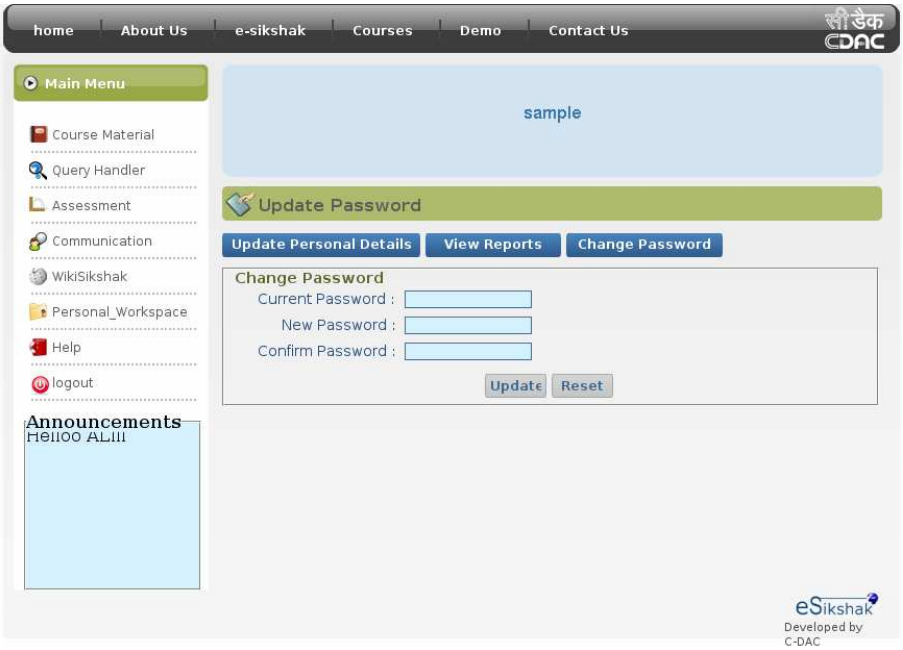


Fig : shows the Change Password page(instructor)

User Management Main Page(Learner Page):

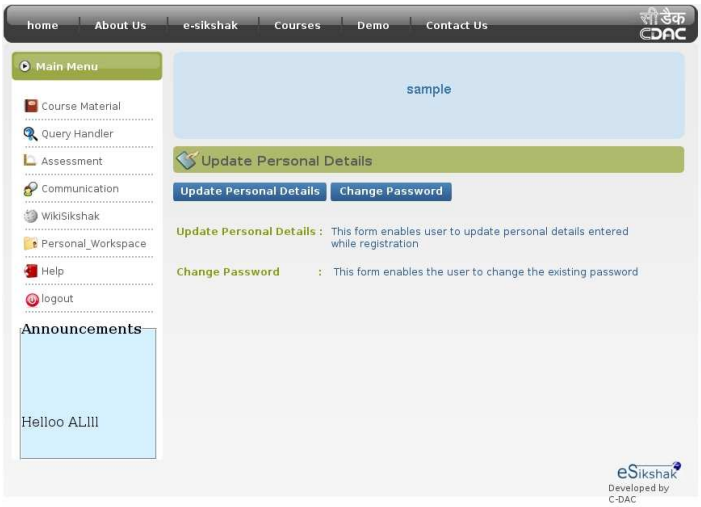


Fig : shows the main page in learner mode

The learner has the privilege of updating personal details, changing his/her password.

Update Personal Details (Learner): This option allows user to change his/her own personal details

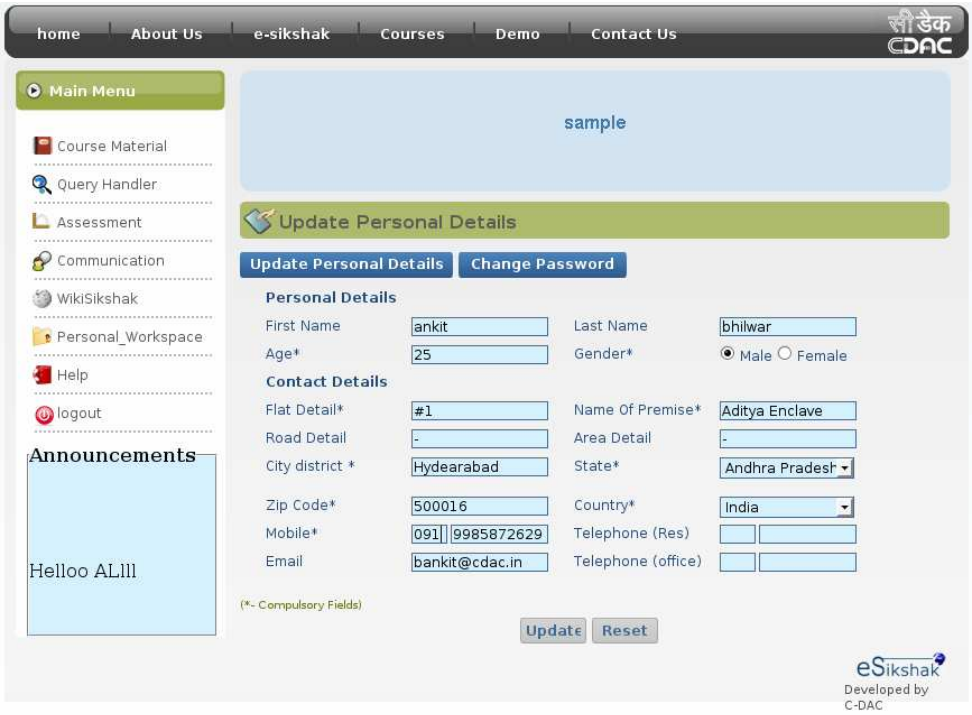
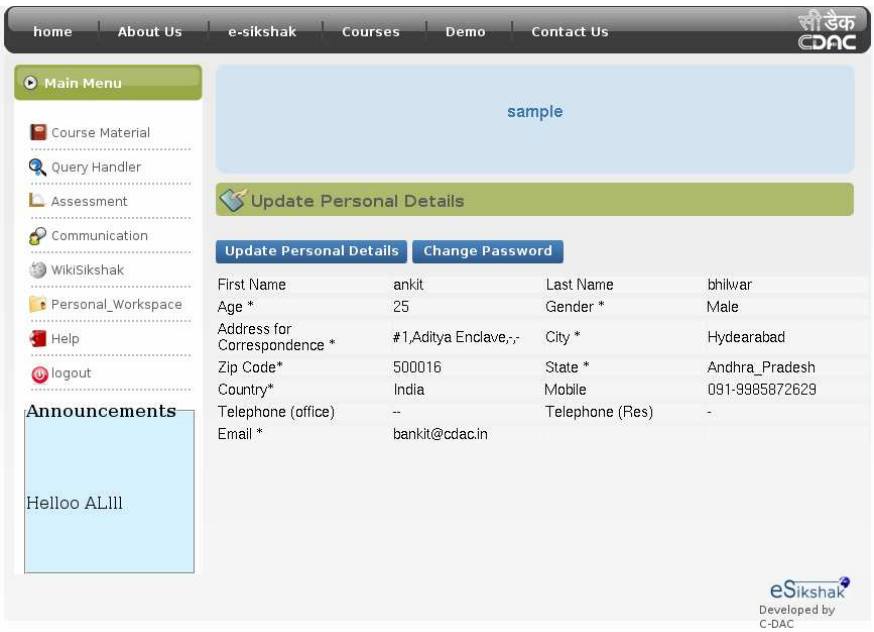


Fig : shows the update details page (Learner)

Update button helps you in submitting the updated data. Reset is used to undo the changes. Once the data is successfully updated, you will get the confirmation of the same, as shown in figure



Change Password: This option allows user to change his/her password.

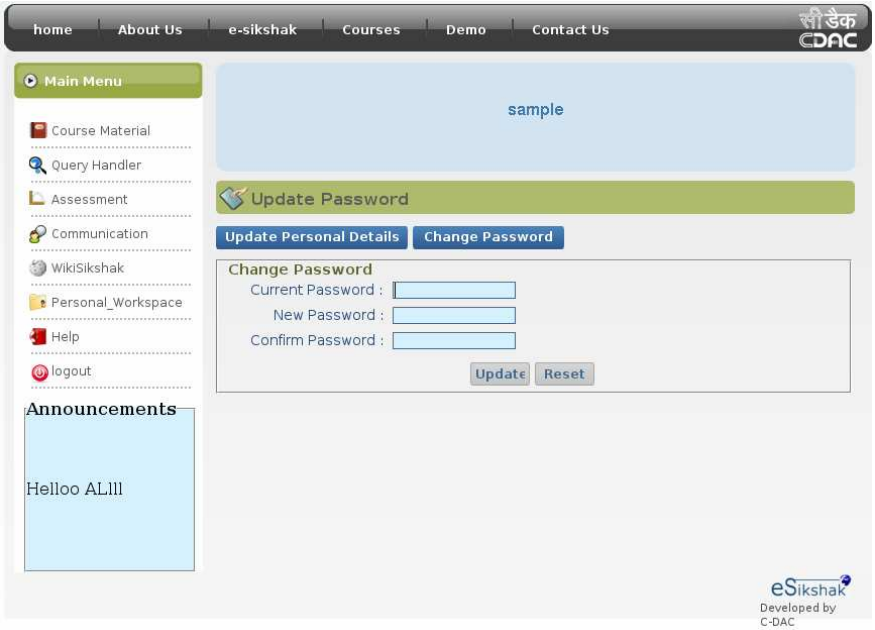


Fig : shows the Change Password page(learner)

3. User Manual – Course Material

Introduction

Course Material module is used to upload the course material into different categories and instructor can assign the module to particular learners. Instructor can upload any type of course material to a particular course. Instructor can upload the course material to each topic in each course in different categories. If course is SCORM Compliant then instructor and learner can only view the course content. Administrator has privilege to upload the SCORM Compliant course.

Brief Description about the functionality

When the user logs in, depending on his role either instructor or learner the Course Material main page will be displayed.

Instructor has the privileges to upload the course material and he/she can also assign the modules to particular learners for a particular duration. Instructor can also remove the course material. These above privileges are with respect to non-SCORM compliant course because instructor has privilege only to view the course content for SCORM Compliant course.

The learner can access the course material that is uploaded by the instructor (non-SCORM) or administrator (SCORM Compliant) and he can read and also download it.

With the help of this module instructor can upload any kind of course material like presentations, pdf files, video lectures and any other type of multimedia contents. Instructor can also upload any type of reference material which is useful to the learners.

Course Material in Instructor mode

Course Material Main Menu

The main objective of this page is to provide various options for managing the course material to learners. The Course Material main page has the following options.

Course Material, Upload Material, Remove Material, Assign Module.

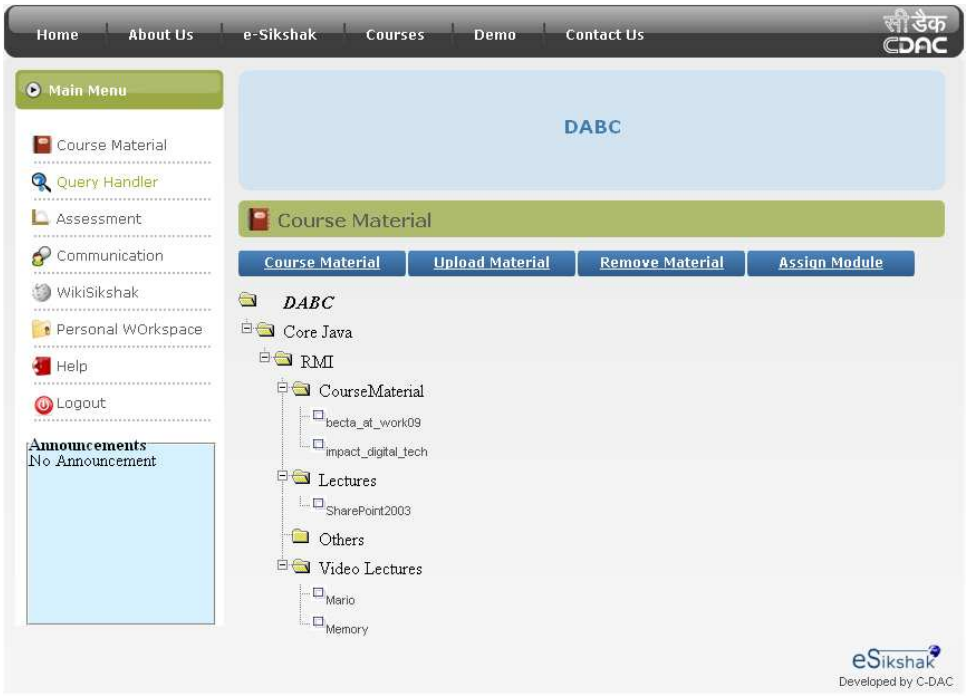


Fig 1.Course Material Home Page

1.Course Material

The main objective of this page is to display Course material in each topic under the Module. He can see the material which is uploaded by him previously. Each topic is divided into four types of categories.

Course Material:	Upload the pdf files and document files under this category.
Lectures	Upload any presentations given in the classroom.
Others:	Upload any other reference material or Examples.
Video Lectures:	Upload any video or audio files.

2. Upload Material

This functionality allows the instructor to upload material to the topic of a particular module.

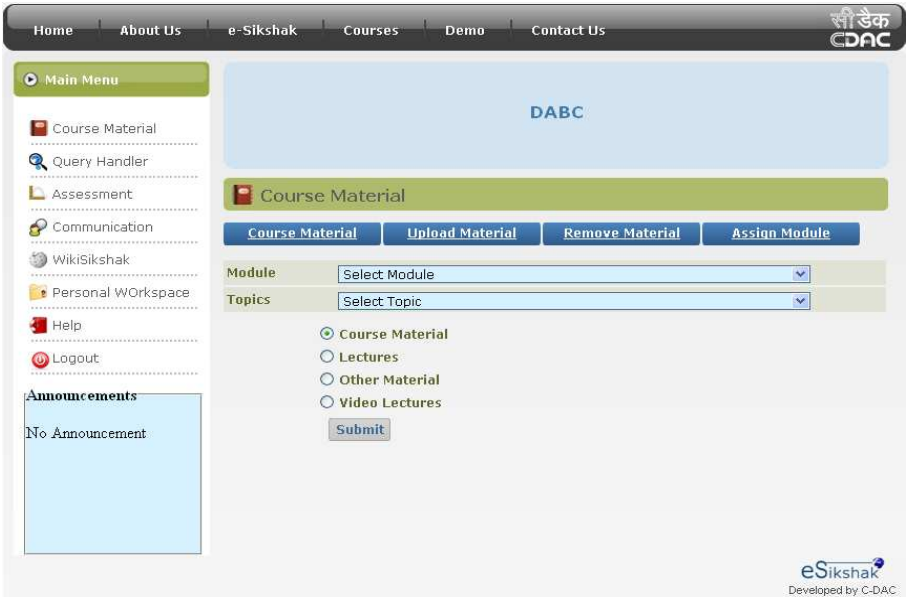


Fig 2.Upload Material

Module: Select the module in the course

Topics: Select the topic of the module under which you are going to upload the material.

Content Type: Check the radio button to select the category of the material.

After selecting the category click on submit button.

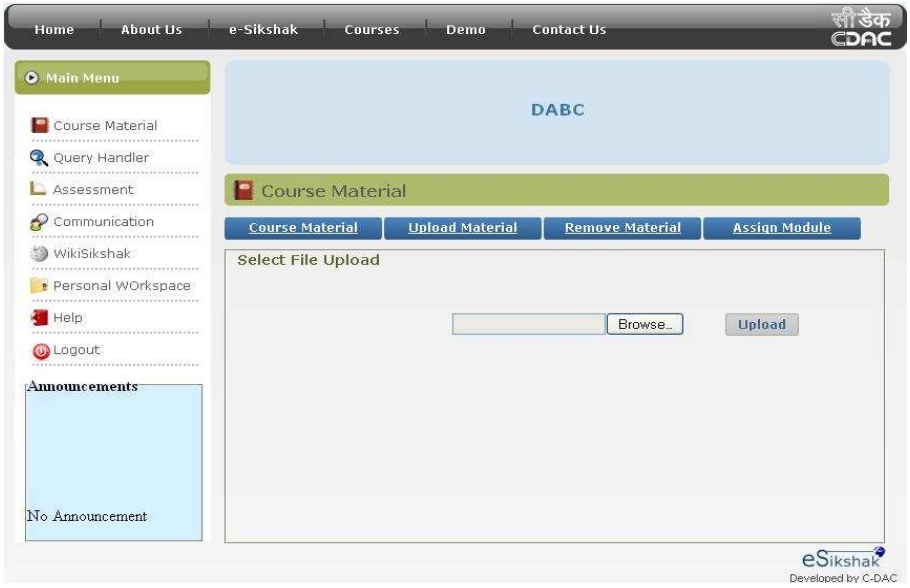


Fig 3.Upload Material

Select File Upload: Browse for the file and upload it.

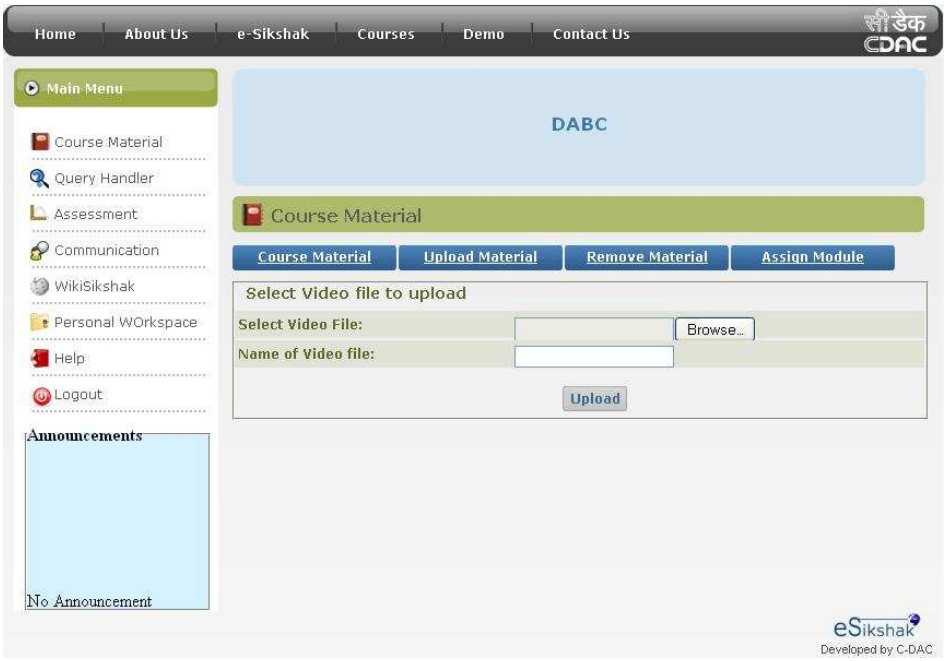


Fig 4.Upload Video File

Select Video File to upload: If you check the video lectures radio button then upload the video file and give the name of the video file.

After selecting the file by clicking on upload button, the material can be added to the particular topic.

3. Remove Material

This functionality allows instructor to delete the uploaded content or material under a particular topic of a module.

Module: Select the module name.

Topics: Select the topic name.

Content Type: Select the content type to delete.

After selecting module, topic and content type click on submit button, it displays all the Materials uploaded to that category.

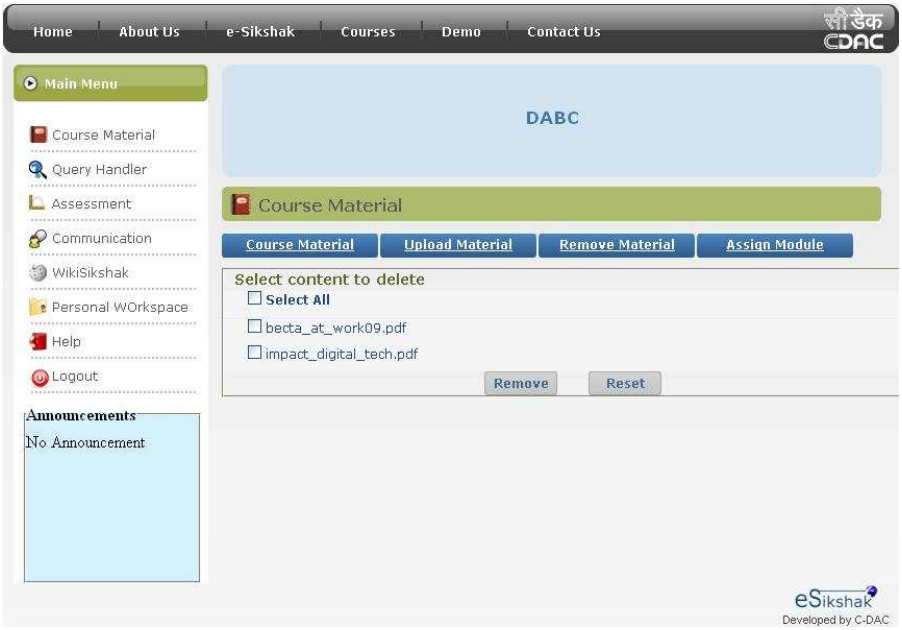


Fig 6.Remove Material

Select the Content which you want to delete or “select all” option to delete all files.

And click on the Remove button. It will show you the confirmation window like

Are you sure to delete this (these) Content(s)?

To confirm click on OK button otherwise click cancel.

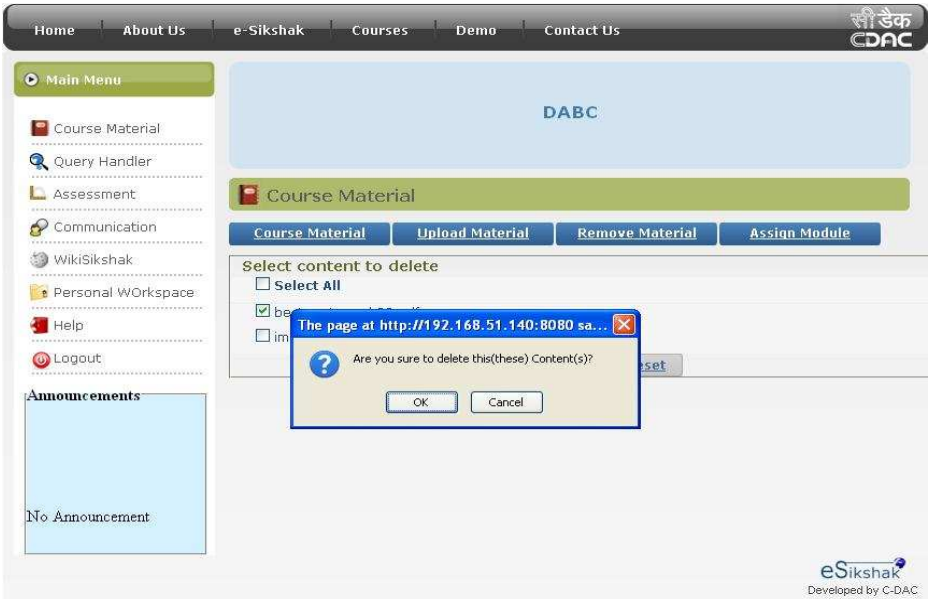


Fig 7.Remove Material

After clicking on OK the deleted content will be shown.

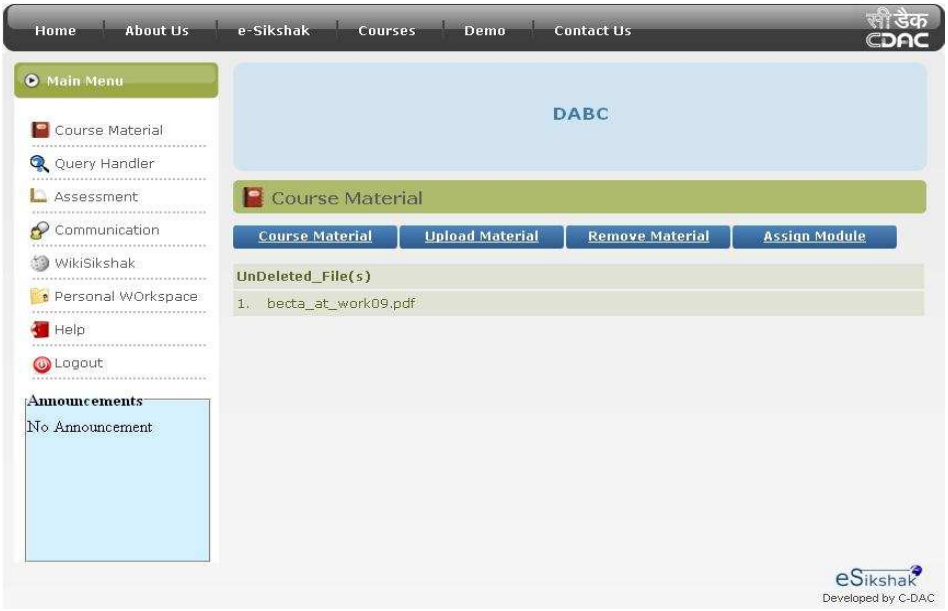


Fig 8.Deleted Material

4. Assign Module

This functionality allows instructor to assign the modules to particular users. Instructor has the privileges to assign the module to learners.

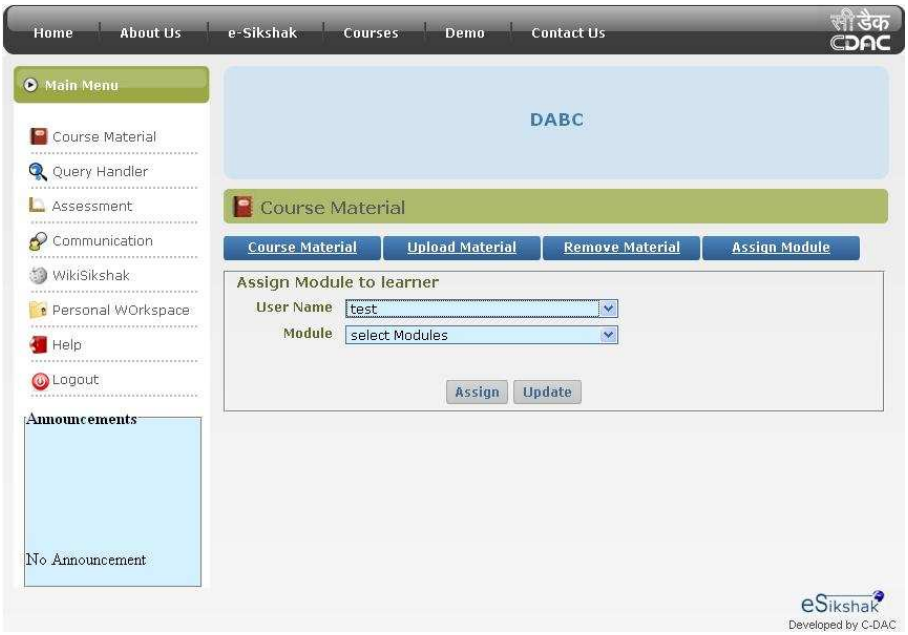


Fig 9.Assign Module To Learner

User Name: Select the User Name (Learner Name).

Module: Select the module name which you want to assign.

Click on Assign Button

It will display a message like Modules are Successfully Assigned.

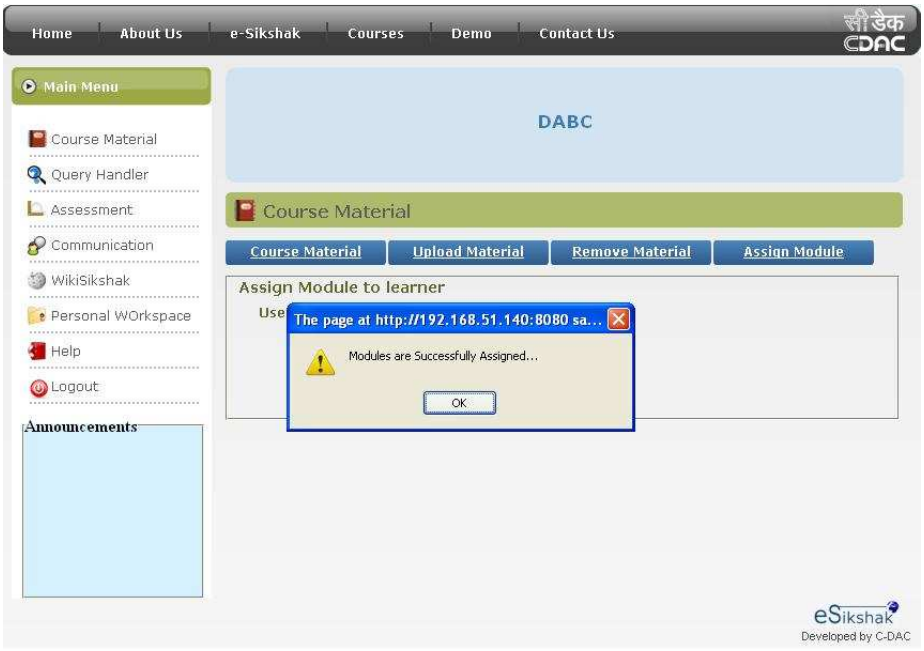


Fig 10.Assign Module to Learner

Course Material in Learner mode

Course Material

The main objective of this page is to display Course material in each topic under the Module.

Learner can see the material which is uploaded by instructors. Each topic is divided into four types of categories.

Course Material:	Upload the pdf files and document files under this category.
Lectures:	Upload any presentations given in the classroom.
Others:	Upload any other reference material or Examples.
Video Lectures:	Upload any video or audio files.

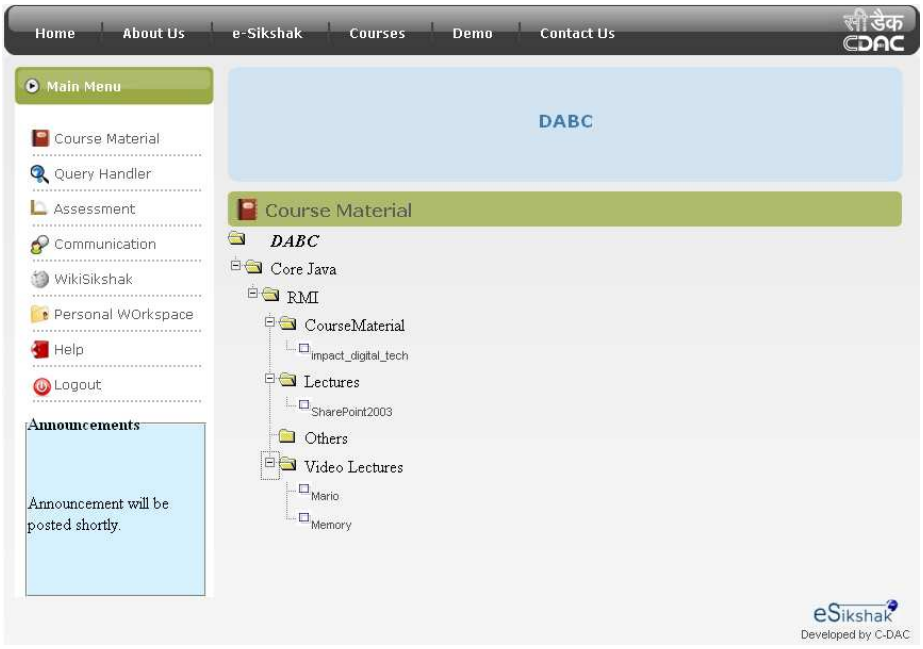


Fig 11.Course Material Home Page (Learner)

Display SCORM Compliant course

The main objective of this page is to display the SCORM Compliant course. When user logged in, on the basis of role (instructor/learner) and course (SCORM Compliant course) it displays this page under Course Material component (Fig 12) to navigate the display of SCORM Compliant course content.

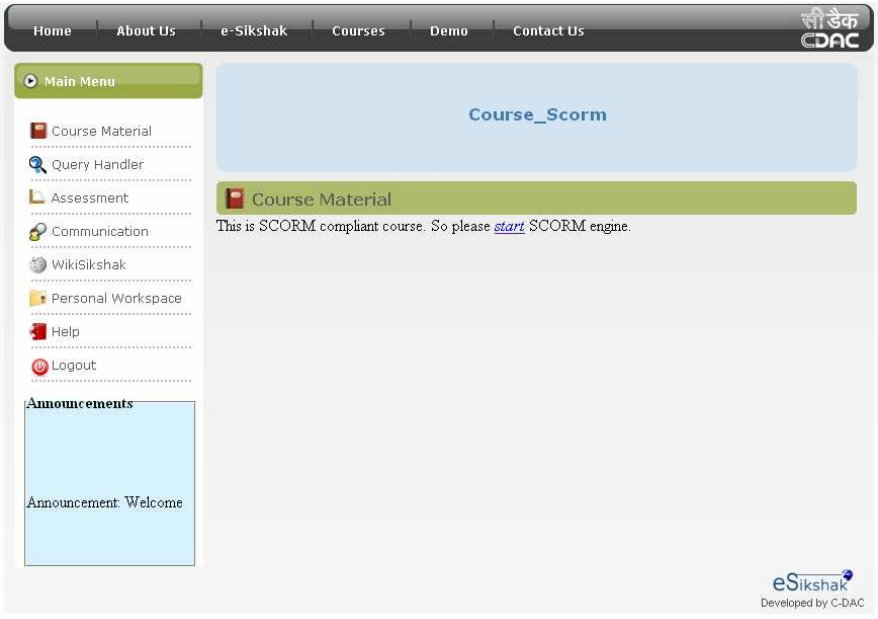


Fig 12.To start the SCORM engine

When user clicks on “start” link it opens new window and displays SCORM Compliant course content page. (Fig 13)

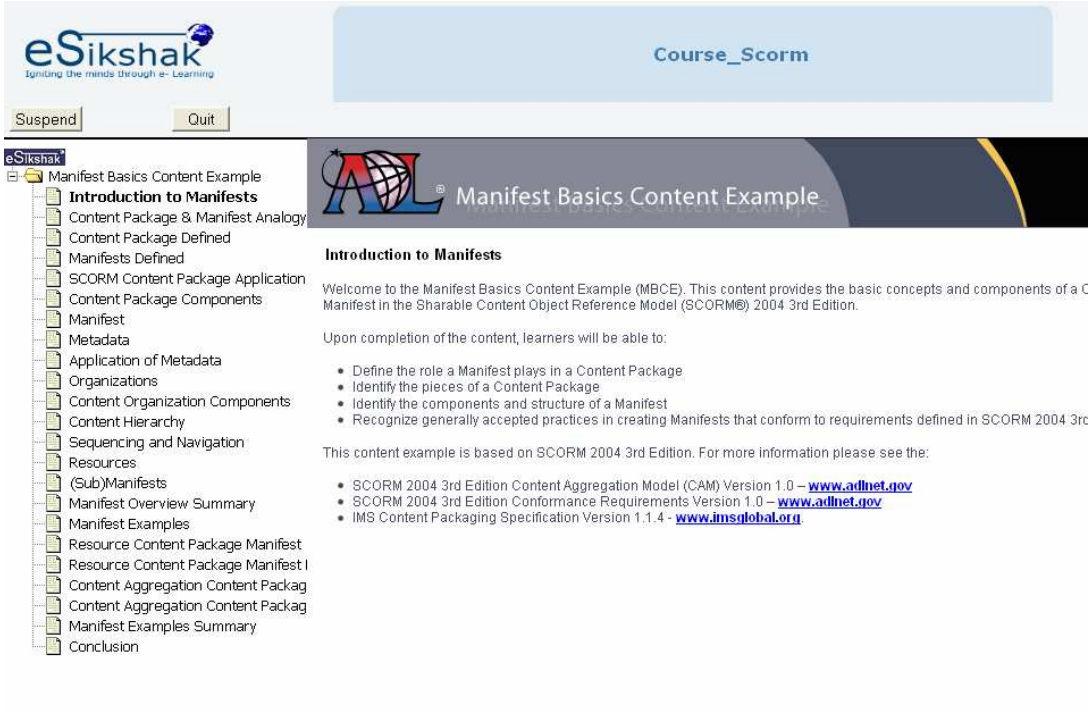

eSikshak
Igniting the minds through e- Learning
Course_Scorm
Suspend
Quit
eSikshak
Manifest Basics Content Example
Introduction to Manifests
Content Package & Manifest Analogy
Content Package Defined
Manifests Defined
SCORM Content Package Application
Content Package Components
Manifest
Metadata
Application of Metadata
Organizations
Content Organization Components
Content Hierarchy
Sequencing and Navigation
Resources
(Sub)Manifests
Manifest Overview Summary
Manifest Examples
Resource Content Package Manifest
Resource Content Package Manifest I
Content Aggregation Content Packag
Content Aggregation Content Packag
Manifest Examples Summary
Conclusion
Manifest Basics Content Example
Introduction to Manifests
Welcome to the Manifest Basics Content Example (MBCE). This content provides the basic concepts and components of a C
Manifest in the Sharable Content Object Reference Model (SCORM®) 2004 3rd Edition.
Upon completion of the content, learners will be able to:
Define the role a Manifest plays in a Content Package
Identify the pieces of a Content Package
Identify the components and structure of a Manifest
Recognize generally accepted practices in creating Manifests that conform to requirements defined in SCORM 2004 3rd
This content example is based on SCORM 2004 3rd Edition. For more information please see the:
SCORM 2004 3rd Edition Content Aggregation Model (CAM) Version 1.0 – www.adlnet.gov
SCORM 2004 3rd Edition Conformance Requirements Version 1.0 – www.adlnet.gov
IMS Content Packaging Specification Version 1.1.4 - www.imsglobal.org.

Fig 13.SCORM compliant course content

User can access the content of different topics with the help of topics link in the left frame.

User can quit or suspend his/her session with the help of “Quit” or “Suspend” button from top frame. If user quits the current session then next time the session will start from first topic of course and if user suspends his/her current session then it will start from that topic where user was last time reading.

When user quits or suspends the session it displays this page. (Fig 14) This page takes 5 seconds to invalid the session and preserve the user’s status.

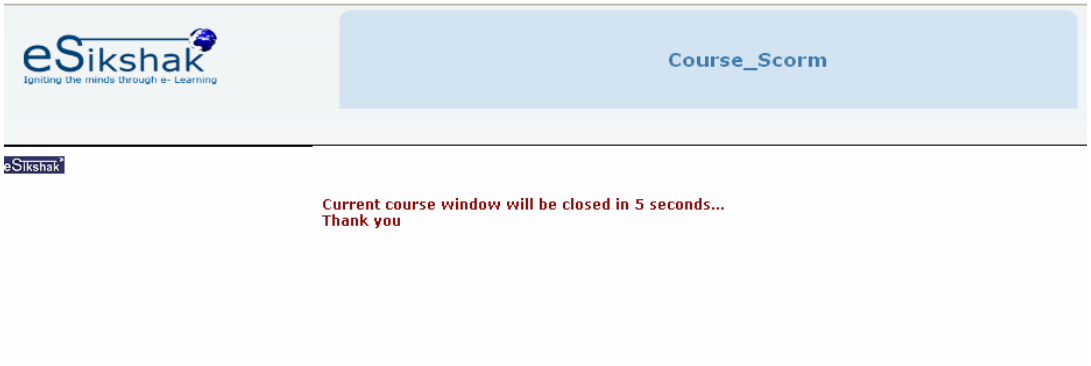


Fig 14.Closing the window

If user directly closes the SCORM Compliant course window then next time of SCORM engine starts it displays error message page. (Fig 15)

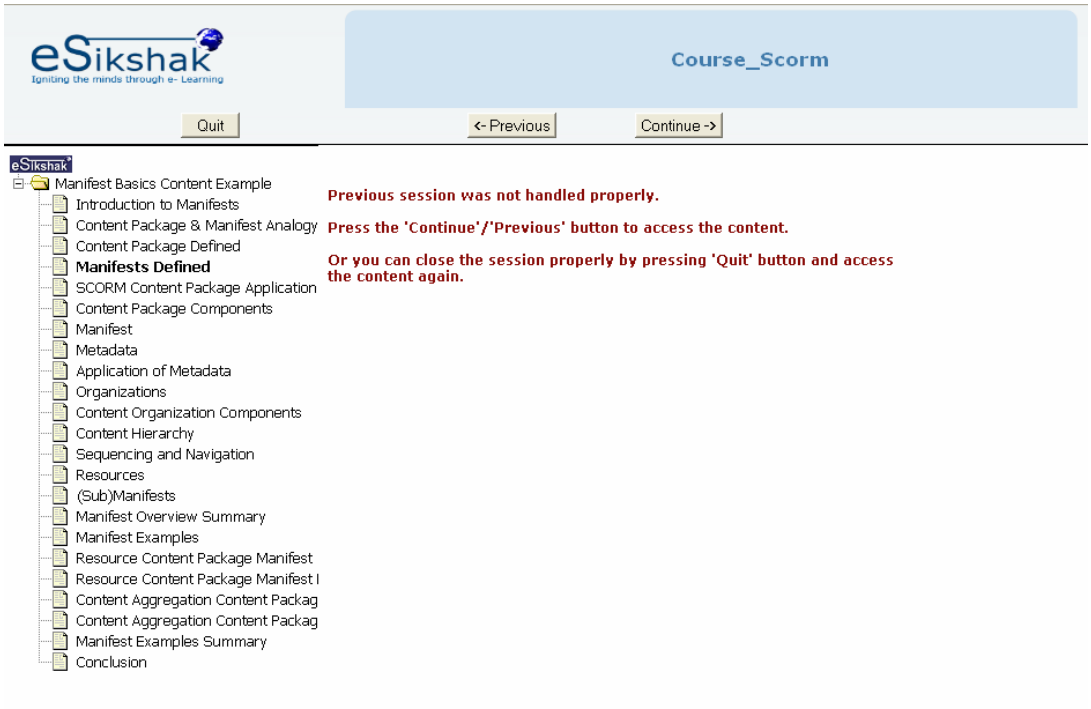


Fig 15.Error message due to last session closing

In this page “Previous” button navigates to previous topic from last time user’s status of topic reading and “Continue” button navigates to next topic.

4. User Manual - Assessment

Introduction

Assessment component is used to assess the student's understanding of the subject. It assesses the student's performance through quizzes and assignments. With this component, Instructor of the course can create quiz, questions and also can assign assignments to the learners. Objective type of assessment is provided through quizzes and evaluation is done automatically after the learner completes taking quiz. In case of assignments once the learner submits the solution for assigned task, instructor can download the solutions and evaluate the learner's solution and can grade them on their performance.

Brief functionality

When the user logs in, module will check whether the user is learner or instructor. Depending upon their role assessment main page will be displayed.

Instructor has the privileges to create quizzes and assignments and he/she can also create a question bank and assign the questions to a quiz. The instructor for a particular duration will assign this quiz to a learner. Instructor can also change the schedule of tests.

The learner can take up the quiz i.e. assigned and gets the performance report automatically after successful completion of the quiz. The learner can download the given assignments and can upload the solutions

Assessment in Instructor mode

Assessment main menu (Instructor Mode)

The main objective of this page is to provide various options for managing the assessment process of the learner. The assessment main page has following options.

Create Quiz, Add Question, Assign quiz, Delete quiz, Update Quiz, Import/Export, Remove Question.

Fig.1 Assessment- menu page

Create Quiz

The main objective of this page is to allow the instructor to create a quiz. To create a quiz, quiz type, general details for quiz and options need to be selected / entered as shown in the figure. All the fields are mandatory. Information about each field is as under.

Quiz Type: Instructor can select the quiz type as True or False, Multiple Choice Single Answer, Multiple Choice Multiple Answers and mixed type.

Quiz Name: Accepts text, maximum of 20 characters.

Module Name: Instructor has to select the module available under the course.

No. of Questions: Accepts number

No. of Sections: Accepts number

Mode of Quiz: Instructor can select the mode of the quiz as individual or Simultaneous.

Graded Quiz : Instructor can select / deselect options depending on the requirements. This defines the assessment grade either first score of all attempts or average score or last score of all attempts to be taken while assessing a student.

Time bound: Instructor can select/deselect options depending on the requirements.

Duration: Enabled only if instructor has selected Time Bound option.

Date of quiz: Date in dd-mm-yyyy format has to be given

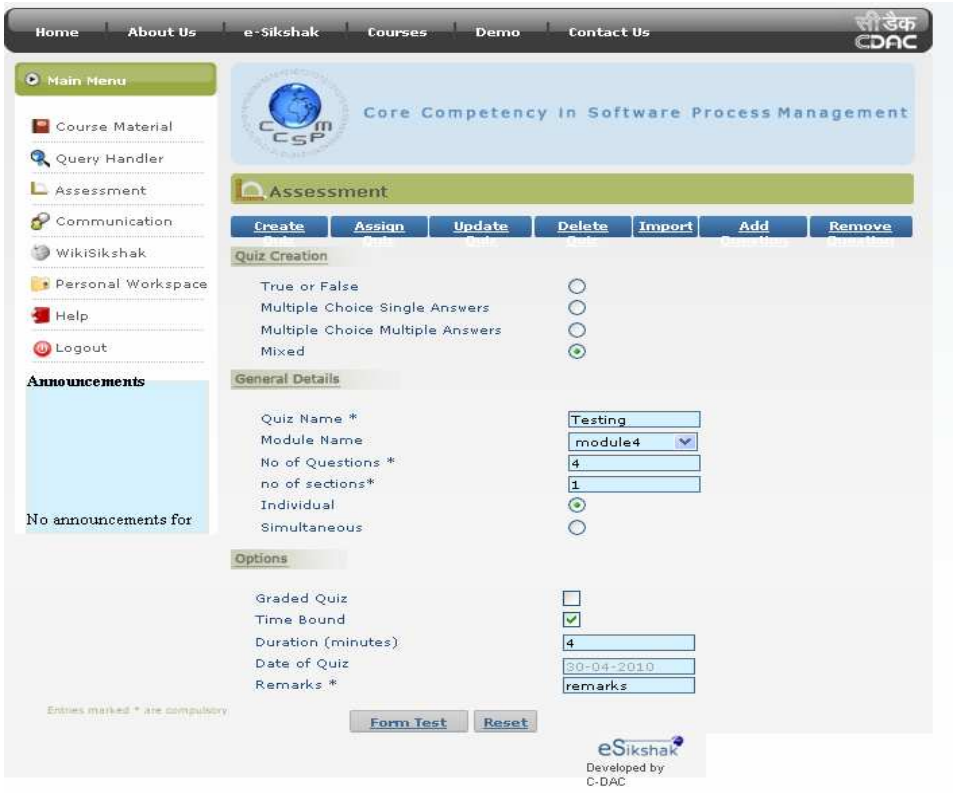


Fig.2 Create Quiz

After entering the required information, Instructor can create a quiz by clicking on form test takes the instructor to the next form where a set of questions can be assigned to the quiz.

Here the instructor can provide the Section Instructions, can select the questions based on selected modules (multiple) and depending on the selected display type (single, multiple, true or false and all) the question list will be displayed. Instructor is provided with questions and corresponding check boxes to select them. Instructor has to mark the check boxes, instructor can provide different weightages for different selected questions. On clicking submit, the selected question(s) will be included in the quiz.

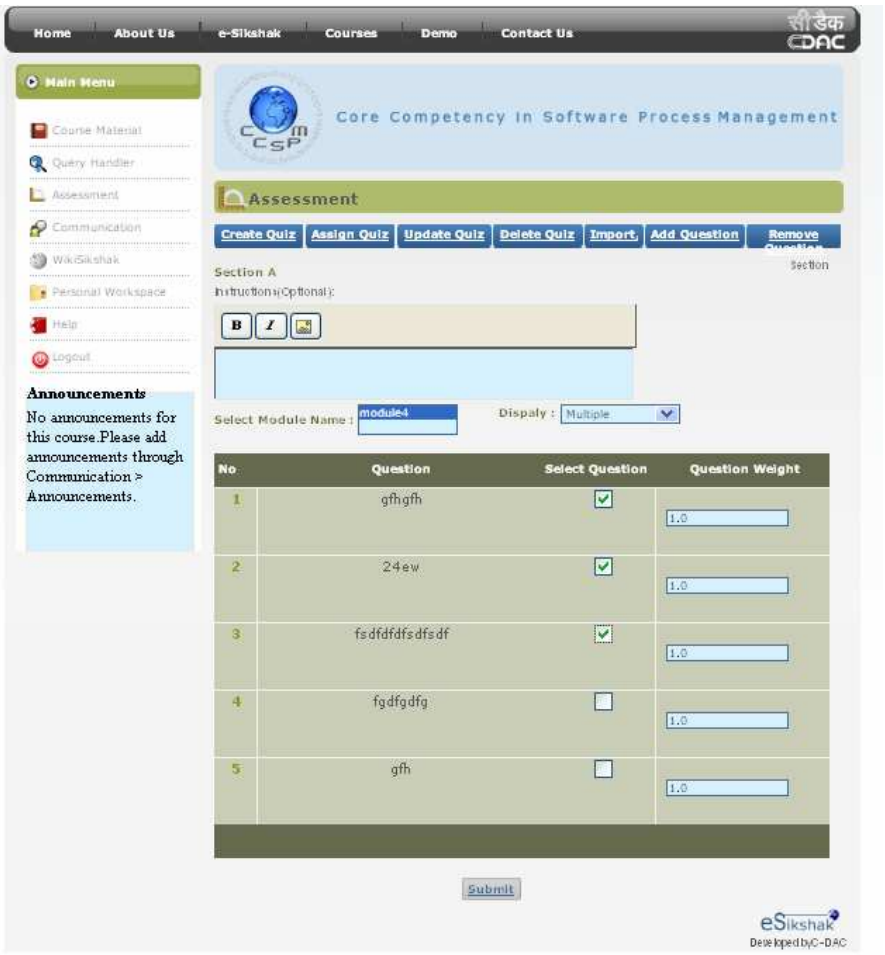


Fig 3. Question list – Adding Questions

Assign Quiz

This functionality allows the Instructor to assign a quiz to the learner.

Fig.4 Assign Quiz

After selecting the module, instructor can click on Next Step Button to get the following screen.

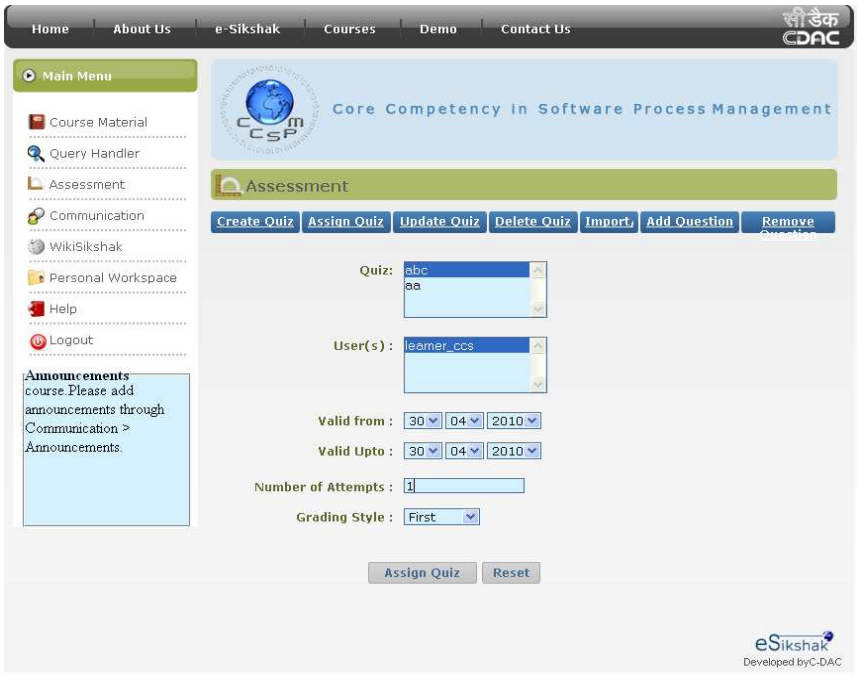


Fig. 5 Assign Quiz

Assigning quiz to learner

The main objective of this page is to allow the instructor to assign the quiz to learner(s).

Quiz: Instructor can select the quiz from the list displayed

User(s): One or multiple learners can be selected from the List of learner displayed.

Valid from & Valid upto: Duration of the quiz for the selected learners has to be specified.

Number of attempts: Learner can be given no.of attempts to take the quiz and the number can be more than one.

Style: Grading style of the learner can be assigned as given in the list.

To assign a quiz, user has to press the Assign Quiz button.

Update Assign details

The main objective of this interface is to allow the instructor to update the time schedules of the quiz assigned to the learners. This page can be invoked by clicking on update assign detail link from assessment main menu.

Fig 6. Selecting Quiz name-Update Assigned Details

User name and the corresponding quiz name have to be selected from the list displayed to view the time schedule of the quiz given to him/her. On clicking submit button, quiz schedule details for the selected user will be displayed.

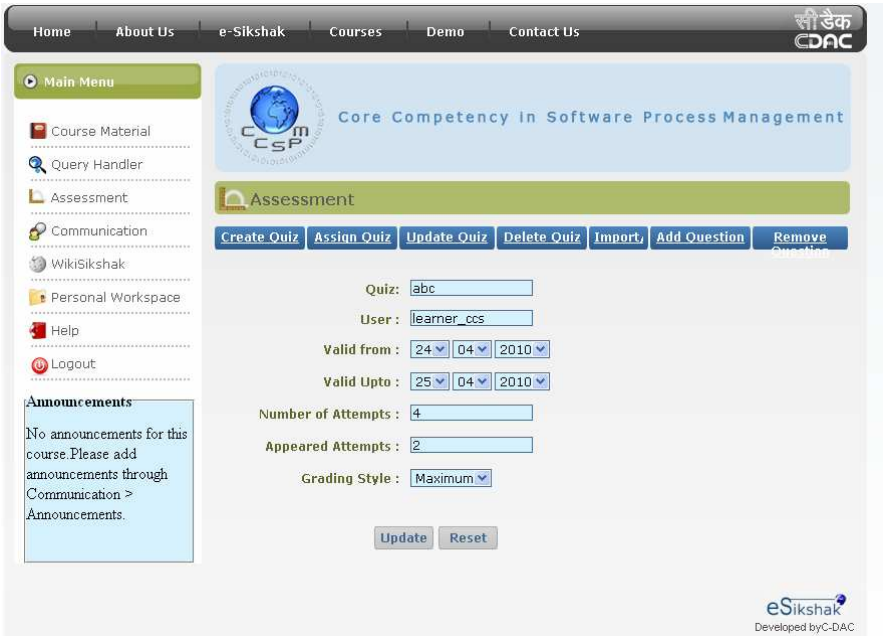


Fig 7. Assigned details

Now the instructor can change the schedule of the quiz, number of attempts. Clicking on submit will save the changes to the database.

Add question:

This provides the feature of creating question bank allowing instructor to add Multiple Choice Single Answer type, Multiple Choice Multiple Answer type and True/False.

Fig 8 Add Question

Main Menu - Add Question

Depending on instructor's requirement, instructor can select the type of the question, which he intends to add. Clicking on the hyperlinks on this form will take the user to the corresponding forms.

Multiple Choice Single Answer:

The main objective of this page is to allow the instructor to create multiple choice single answer type of questions and add to the database.

Fig. 9 Adding question Multiple-choice Single Answer

Add Para:	Instructor can provide paragraph information if it is available
Add Choice:	Instructor can add one more choice by clicking Add choice Link
Remove Choice:	Instructor can delete the choice by clicking Remove choice (if choices are more than 4)
Topic:	Instructor has to select the topic from list displayed
Question:	A text area box is provided to type the text of the question and user can add the images.
Choices:	Text Box is provided to type the text of the options. Instructor can select the correct answers by selecting the radio button corresponding to correct choice.
Score:	Text Box is provided to enter the score ,digits are allowed

Shuffle Choices: Choices will be shuffled when the learner is attempting the question if it is checked.

Clicking on Submit will add the question to the database, creates the xml file and provide the same screen for adding further questions. Clicking on Reset will clear the contents of the form.

Multiple-choice Multiple Answer:

The main objective of this Interface is to allow the user to add multiple choice multiple answer type of questions.

Fig. 10 Adding question Multiple-choice Multiple Answer

Add Para: Instructor can provide paragraph information if it is available

Add Choice: Instructor can add one more choice by clicking Add choice Link

Remove Choice: Instructor can delete the choice by clicking Remove choice (if choices are more than 4)

Topic: Instructor has to select the topic from list displayed

Question: A text area box is provided to type the text of the question and user can add the images.

Choices: Text Box is provided to type the text of the options. User can select the correct answers by selecting the check boxes corresponding to each choice.

Score: Text Box is provided to enter the score, digits are allowed

Shuffle Choices: Choices will be shuffled when the learner is attempting the question if it is checked.

Clicking on Submit will add the question to the database creates the xml file and provide the same screen for adding further questions. Clicking on Reset will clear the contents of the form.

Adding question True or False

The main objective of this page is to allow the user to add True or False type of questions.

Fig 11. Adding question (True or False)

Add Para: Instructor can provide paragraph information if it is available

Topic: Instructor has to select the topic from list displayed

Question: A text area box is provided to type the text of the question and instructor can add the images

Answer: True or false can be given by selecting the appropriate radio button.

Score: Text Box is provided to enter the score, digits are allowed

Clicking on Submit will add the question to the database and provide the same screen for adding further questions. Clicking on Reset will clear the contents of the form.

Update Quiz

The main objective of this page is to allow the user to select the quiz for updating the quiz/question. The list of quizzes are displayed and by clicking on a particular quiz allows the user to update the details of that quiz or questions related to that quiz.

Fig.12 Quiz Listing- Update Quiz

Clicking on update quiz takes the user to screen where he can update the details of a quiz. Clicking on update questions allows the user to update the question details.

Fig 13. Update Quiz Details Menu

Update Quiz

The main objective of this page is to allow the user to update the quiz details. The invoked interface displays the quiz details entered by the instructor. Here Instructor can make required changes in quiz details and click on update test to save the changes. For more information to fill up the data in this screen please refer to the create quiz help.

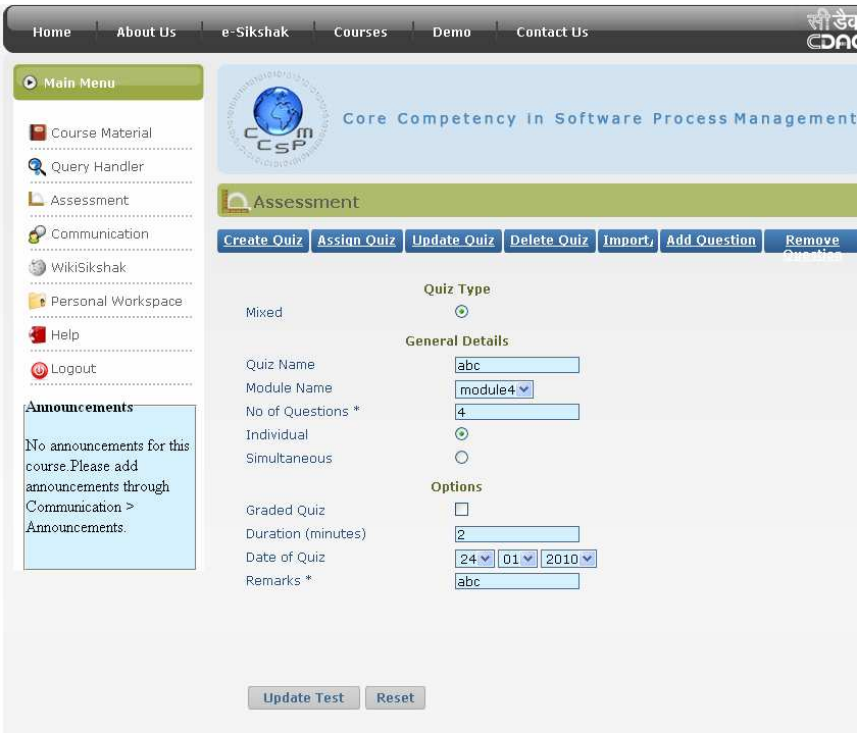


Fig.14 Update Quiz

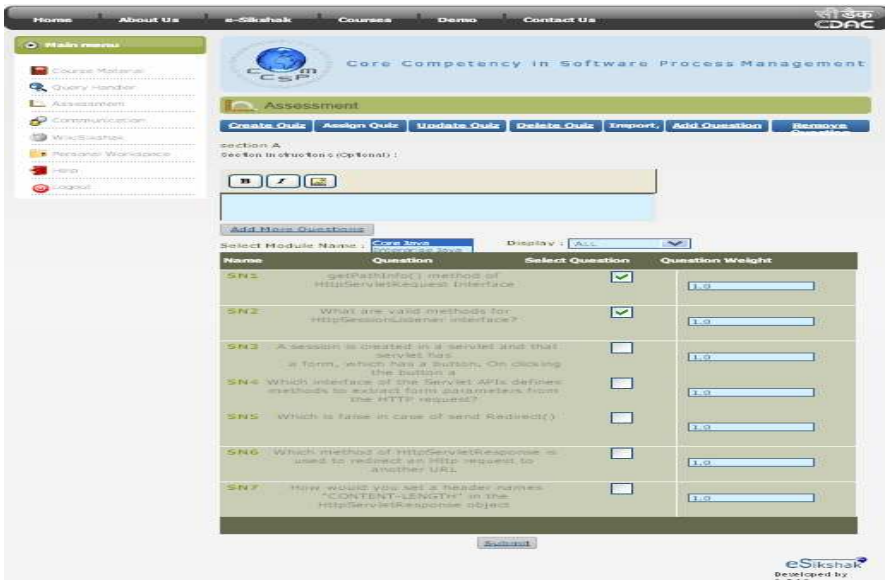


Fig.15 Update Quiz question list

Update Question

The main objective of this page is to display the questions available under selected quiz. This forms displays the quiz details and the questions assigned to that quiz. The questions are displayed along with the question ids. On clicking question id, depending on the question type,(multiple choice single answer or true/false or mixed) the interface to update the question can be seen. These interfaces are similar to the interfaces described in the previous sections to create questions. Instructor can make changes to the question information and submit it to the database.

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Core Competence in Software Process Management
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Delete Quiz
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Add Question
Questions
No
Question
1 Software engineering emerged as a discipline in the year
2 Software engineering addresses
3 Software engineering helps in
4 Software engineering is applicable to
5 It was planned to complete a project in 6 months with a budget of $100,000. The project was completed in 8 months and costed
6 Ariane 5 satellite launcher disaster teaches us that
7 Software engineering emerged as a discipline in the year
8 Software engineering addresses1
9 Software engineering helps in

Fig.16 Displaying Question - Update Question (update question also to be kept)

Delete Quiz/Delete Question

The main objective of this page is to allow the user to delete the quiz. The interface can be invoked by clicking on delete quiz from Assessment menu. This form displays the quizzes that are created along with the quiz information. By selecting a particular quiz will display the its details and gives the provision to delete the quiz. Quiz, which is assigned to any learner, cannot be deleted.

Fig.17 Quiz Details

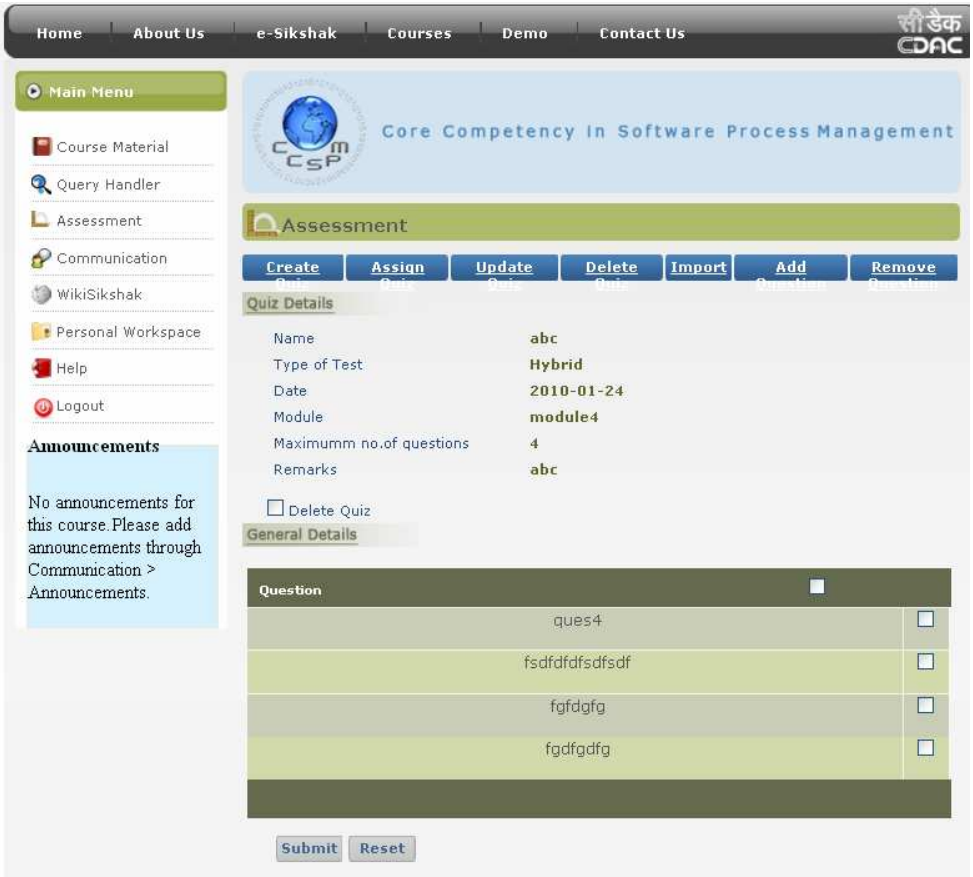


Fig.18 Quiz Details

Depending on the requirements, user can select delete quiz or can select the questions to be removed from the quiz. Clicking on submit button will delete the selected quiz/question.

Remove Question

The main objective of this page is to allow the user to remove the question from the Question bank. On clicking submit button, the questions pertaining to the selected Module will be displayed.

Fig.19 Selecting Module-Remove Question

The questions, which have to be deleted, have to be marked for deletion first. By clicking on remove button, user can remove the questions from the question bank. Questions are already assigned to quiz, cannot be deleted.

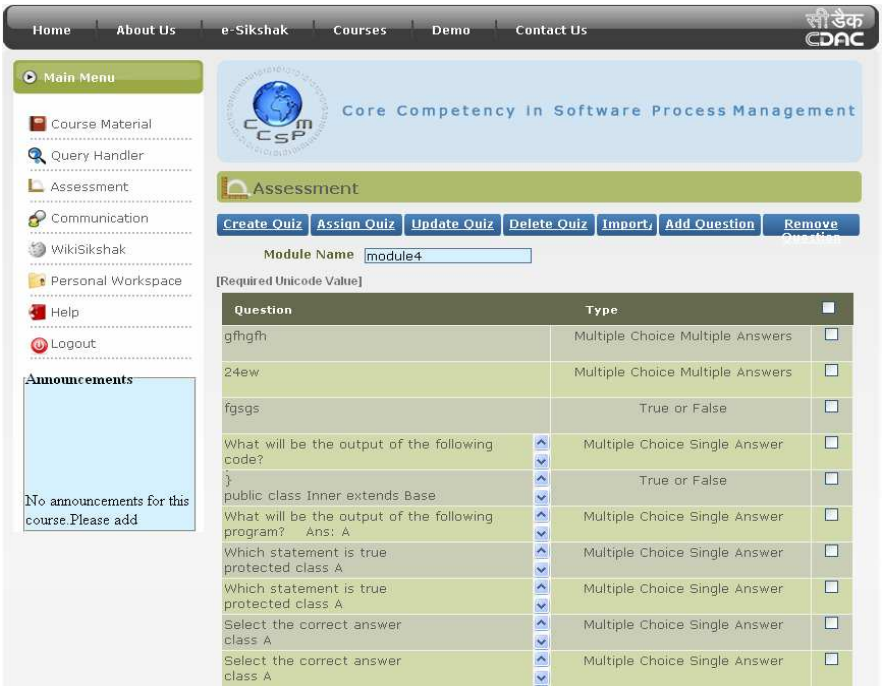


Fig.20 Selecting questions

Import/Export:

The main objective of this page is to allow the user to export the available quizzes and to import any quizzes.

Fig:21 Import and Export of Quizzes

Based on the user requirement Quizzes can be imported and exported. By clicking on quiz name that quiz will be exported. Clicking on import link it will display the page with the option to browse the file. After selecting the quiz It checks whether the quiz is QTI compliant or not If it is QTI compliant quiz then it is imported the quiz and questions to the selected modules. This below fig shows the selection of modules for questions and quiz.

Fig 22. Importing Quiz and Questions

By selecting module name in list of modules clicking on submit it will be stored on database

Assignment

Creating assignments, uploading the assignment files and evaluating the assignments are provided in the assignment menu page. Instructor can navigate to this page by clicking on the assignment link from Assessment main menu. Following options are available under assignment main menu.

Add Assignment Details, Update Assignment Details, Upload Assignment Files, Evaluate Assignments. Clicking on these hyper links will take the user to the respective forms.

Fig.23 Assignment menu page

Add Assignment Details

The main objective of this page is to allow the user to add the assignment details.

Fig 24. Add Assignment Details

Assignments name: Assignment name has to be selected for the list given. This list always displays the assignments that are not created.

Publish date & Submission date: The date on which the assignment is created and by which date the learners have to publish the solution is given here.

Maximum marks: The maximum marks of the assignments are given here.

Remarks: Any remarks related to the assignment can be given here.

By submitting the details the assignment is created and added to the database.

Update Assignment Detail

The objective of this page is to allow the user to update the assignment details. To update the assignment details, instructor need to select the Assignment name. After selecting the assignment name, user can see the assignment details and can update the publish date, submission date, maximum marks and remarks.

Fig 25. Updating assignment

Clicking on update will save the changes to the assignments in the database. Option for deleting the assignment is also here. By clicking on delete will delete that particular assignment.

Upload Assignment Files and downloading the solutions submitted by the learners

The main objective of this page is to allow the user to upload assignment file(s) by clicking on upload assignment file link from Assignment main menu. After creating the assignment, instructor has to link the question(s) related to that assignment. The question can be given in the form of a standard document format such as word document/text document/html document/pdf etc.

Fig 26. Upload assignment(s) files

Instructor can upload the file by clicking on upload button for the corresponding assignment. On clicking upload button, instructor will see the file dialog box, from where he/she can select the files. On clicking upload button, the file name and the bytes can be seen and instructor will get a message “File Uploaded Successfully...”. When Close button is clicked, the attached file will be displayed on upload assignment form. Remove option given here allows the instructor to delete the attached files in that assignment. And User is having the provision to upload the content by writing text in to the text area on clicking the save button it will be saved.

Evaluate Assignment

When the learner has submitted the solutions in related to any assignment the instructor has to evaluate those solutions. This page can be invoked by clicking on Evaluate assignment link from Assignment main menu.

Fig 27. Evaluate Assignment

Assignment name: By clicking on assignment name displays a list of created assignments in a small window. Instructor has to select the assignment which has to be evaluated.

User id: Clicking on user id displays the list of the learners who have submitted the assignments selected previously.

Submission date: The date on which the user has submitted the solutions for the assignments is displayed.

Scored marks: Instructor after going through the solution submitted by the learner will assess the answer and award the marks accordingly

This form also provides the necessary functionalities to delete a particular assignment or all assignments.

Delete Current will delete the current assignment that is being displayed

Delete all will delete all the assignments that are created by the instructor. More details to be added

View Solutions: Clicking on this hyperlink will display the solution files uploaded by the learner. Instructor can open/download the solutions.

Reports

This feature provides the various reports related to the learner performance. This page can be invoked by clicking on Report link from Assessment main menu. Various reports are made available as given below.

User Performance report, Quiz Report, Assignment Report

Fig 28.Report main menu

Depending on the requirements user can select the appropriate report.

User Performance report

This report displays the performance of a particular learner in all tests he/she has taken. The learner name is selected from the list and clicking on submit will display the performance of that learner.

Fig 29. Selecting user name

User can select the show complete result check box and clicking on submit will display the performance of that learner quiz wise.

Fig.30 User performance report

Quiz report

This report provides the performance report of the learners in that particular quiz. This page can be invoked by clicking on Quiz report link from Report main menu.

Fig 31. Selecting Quiz name

By selecting the quiz and clicking on Report will display the learner's performance in that quiz.

Fig 32. Quiz Report

Assignment Report

This report displays the marks scored by the learner in various assignments. This page can be invoked by clicking on Assignment report link from Report main menu.

Fig.33 Selecting user name

Fig 34. Assignment report

The features of the Assessment module in Learner mode

Assessment module allows the learner to take assigned quiz and upload the solution of the assignments.

Learner's main page for assessment

This page displays the quizzes assigned to a learner. A list showing the quizzes will be displayed.

Fig 35. Assessment main page-Learner Mode

User can attempt a quiz by clicking on a quiz name. When the number of attempts given to a learner is exhausted or the duration of the quiz is completed, that particular quiz name will not be displayed in this list. On clicking quiz name, the learner will start taking the quiz. The first message comes will give the identification number of the quiz for that learner. Learner needs to remember this id for further reference. In case of any failure in taking this attempt, the learner can use this id to resume the quiz.

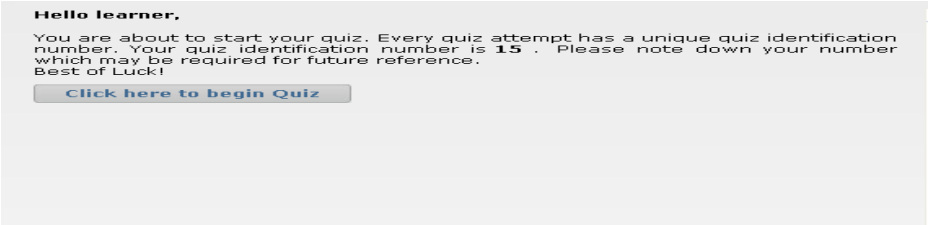

Hello learner,
You are about to start your quiz. Every quiz attempt has a unique quiz identification number. Your quiz identification number is 15 . Please note down your number which may be required for future reference.
Best of Luck!
Click here to begin Quiz

Fig 36. Start quiz

Clicking on “Click here to begin Quiz“ will start displaying the questions related that quiz. When the learner completes the quiz, the marks scored by the learner will be displayed.

Attempting Quiz

While attempting quiz, depending upon the type of the question user has to select the check box/radio buttons and confirm their answer by pressing submit Answer button. When user presses submit Answer then, another question can be seen. At the top, user can see the time left to complete the quiz (if the quiz is time bound).

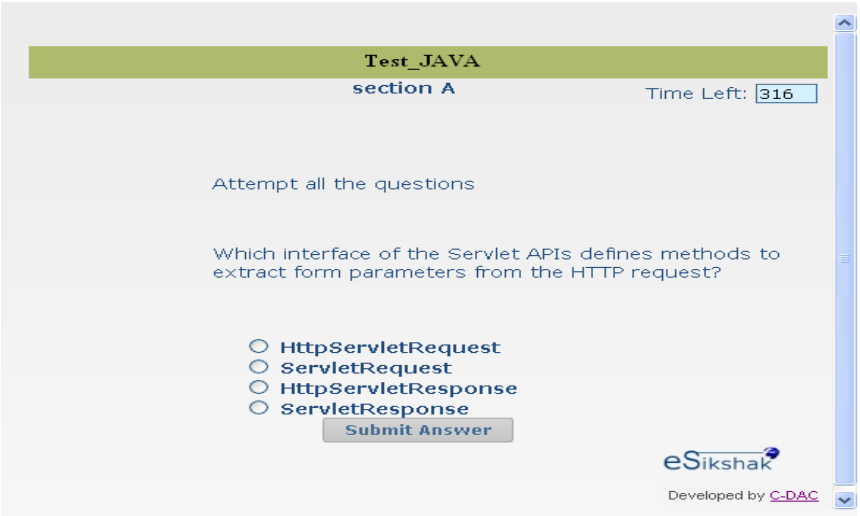


Fig 37. Quiz

After completing the quiz, user can view the final score of the appeared quiz.

Fig 38. Successful completion of Quiz

Resume Quiz

Resume quiz allows the user to resume the suspended quiz. Following screen appears after selecting the resume quiz link.

Fig 39. Resuming quiz

Here user has to enter the attempt id (generated before attempting the quiz) of the suspended quiz. Clicking Resume quiz button will display the status of the suspended quiz as under. Learner will be resuming the quiz from the point where the failure has occurred.

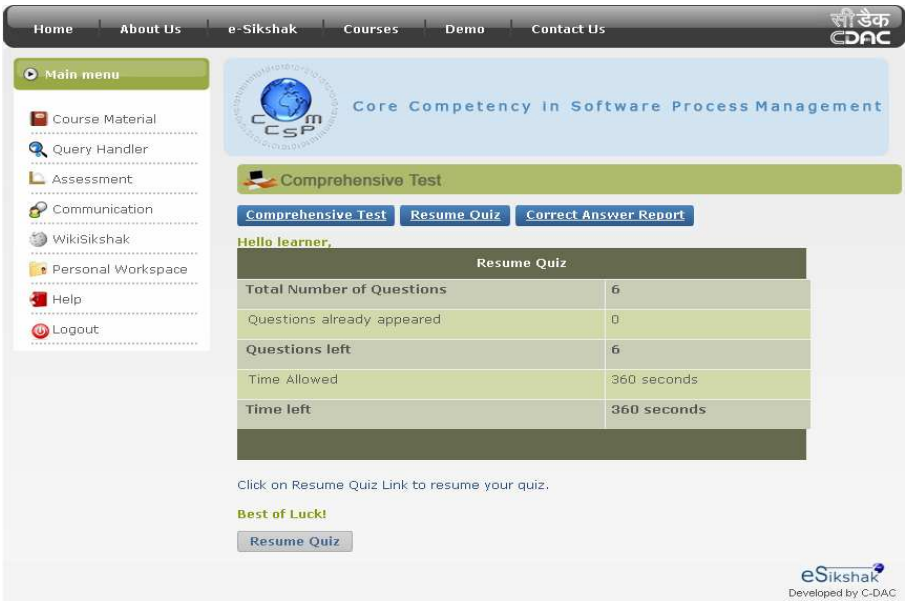


Fig 40. Details of suspended quiz

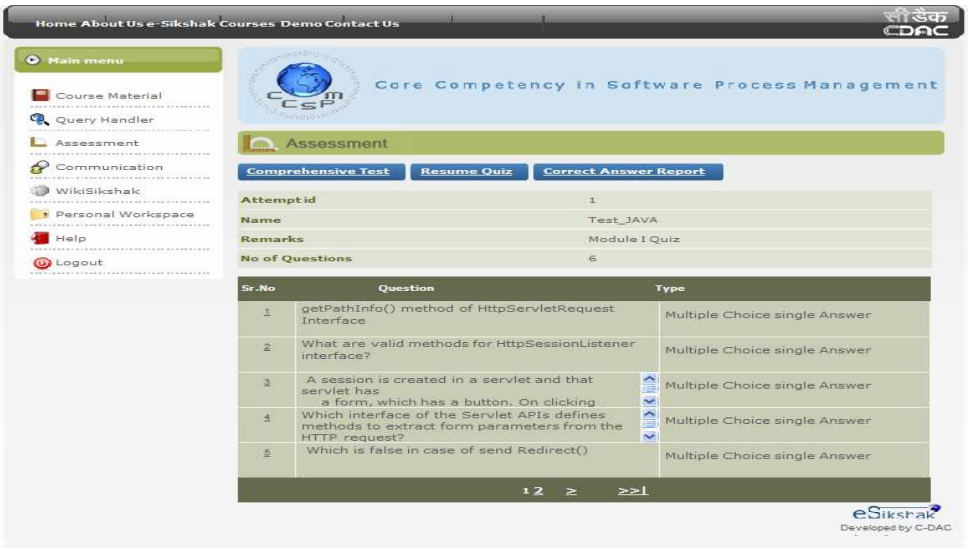
Clicking on resume quiz resumes the quiz.

Correct Answer Report:

Correct Answer Report allows the user to check the correct answer and answer submitted by that learner. Following screen appears after selecting the Correct Answer Report link.

Fig 41. Correct Answer Report

Here user has to enter the attempt id (generated before attempting the quiz) of the attempted quiz. Clicking submit button will display the list of the questions attempted by that learner.


Home About Us e-Sikshak Courses Demo Contact Us
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Assessment
Communication
WikiSikshak
Personal Workspace
Help
Logout
Core Competency in Software Process Management
Assessment
Comprehensive Test
Resume Quiz
Correct Answer Report
Attempt id 1
Name Test_JAVA
Remarks Module I Quiz
No of Questions 6
Sr.No Question Type
1 getPathInfo() method of HttpServletRequest Interface Multiple Choice single Answer
2 What are valid methods for HttpSessionListener interface? Multiple Choice single Answer
3 A session is created in a servlet and that servlet has a form, which has a button. On clicking Multiple Choice single Answer
4 Which interface of the Servlet APIs defines methods to extract form parameters from the HTTP request? Multiple Choice single Answer
5 Which is false in case of send Redirect() Multiple Choice single Answer
1 2 > >>1
eSikshak
Developed by C-DAC

Fig:42 Correct Answer Report

Clicking on Sr.no of particular question then one new window (fig 43) will open with the question, options, Correct answer and answer submitted by learner.

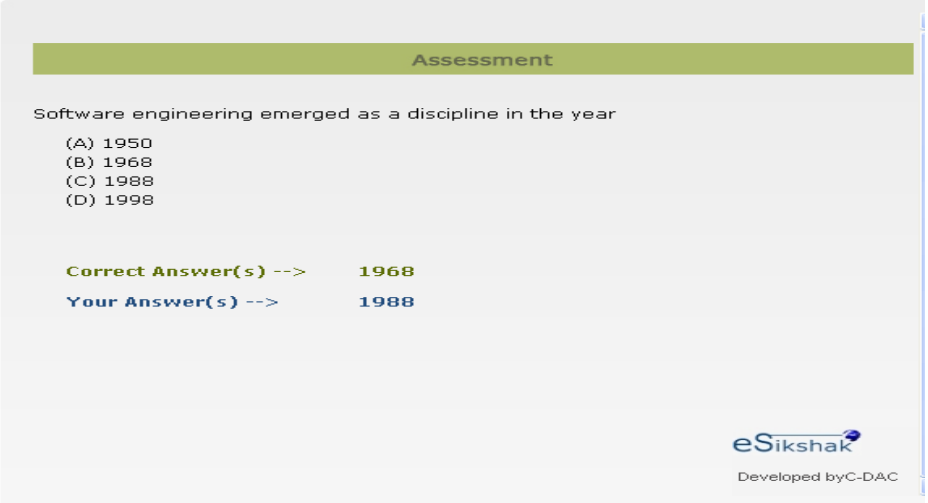


Fig:43 Correct Answer Report

Assignment

User can view the assignment details by clicking on assignment name displayed on Assessment's Assignment link.

Fig 44. Learner's Assignment Main Page

Here the learner can view the assignments by clicking on assignment name. Download link will allow user to download the assignment problem given. User can upload the solutions by clicking on the upload solutions of that assignment. The bottom portion of the page displays the assignment name. By clicking on the assignment name, appropriate questions, which are given under those assignments, will be displayed.

Learners can delete the file which is uploaded by them.

5. User Manual – Query Handler

Introduction

Query Handler is a unique tool for quenching the thirst for greater and in-depth knowledge in a subject and also to motivate a learner to ask questions, think and request clarifications. Query Handler is developed using component technology developed by C-DAC and hence could be easily plugged into other e-Learning frameworks. It is supported on all operating system platforms with support for java. It has support for MySQL database and can be easily customized for any other database.

Query Handler Home Page(Instructor Mode)

Following is the screen shot of the Query Handler Home Page.

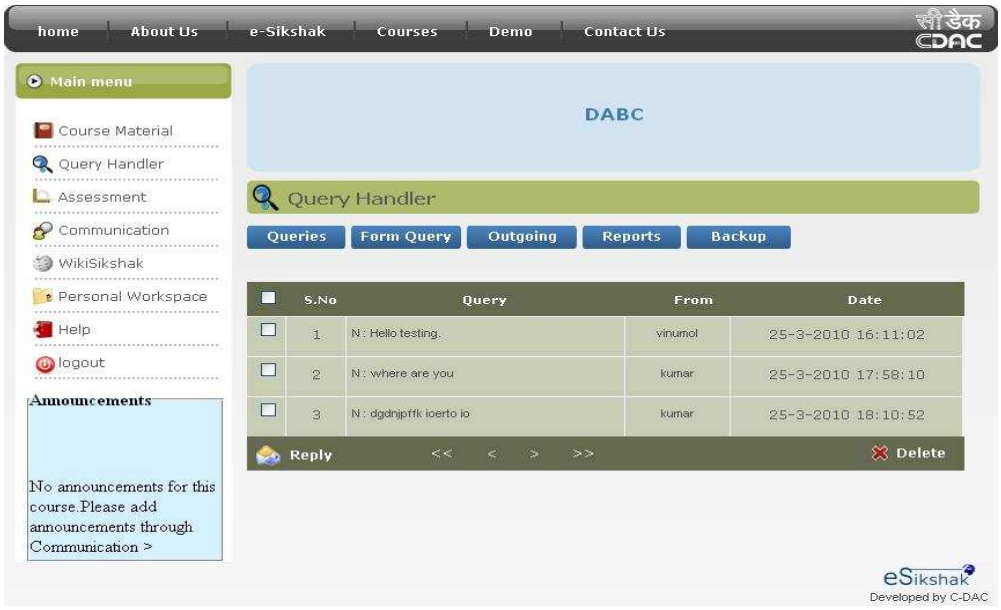


Fig 1. Query Handler Home Page

It displays all the available functionalities like viewing the query inbox by clicking on queries.

The queries which were sent are viewed through the link **Outgoing.**

Queries can be formed by clicking on the link **Form Query.**

Various reports based on the multiple criteria set by the user through the link "**Reports". Backup** provides administrative functions like taking backups and retrieving data from earlier backups.

Queries (Instructor Mode)

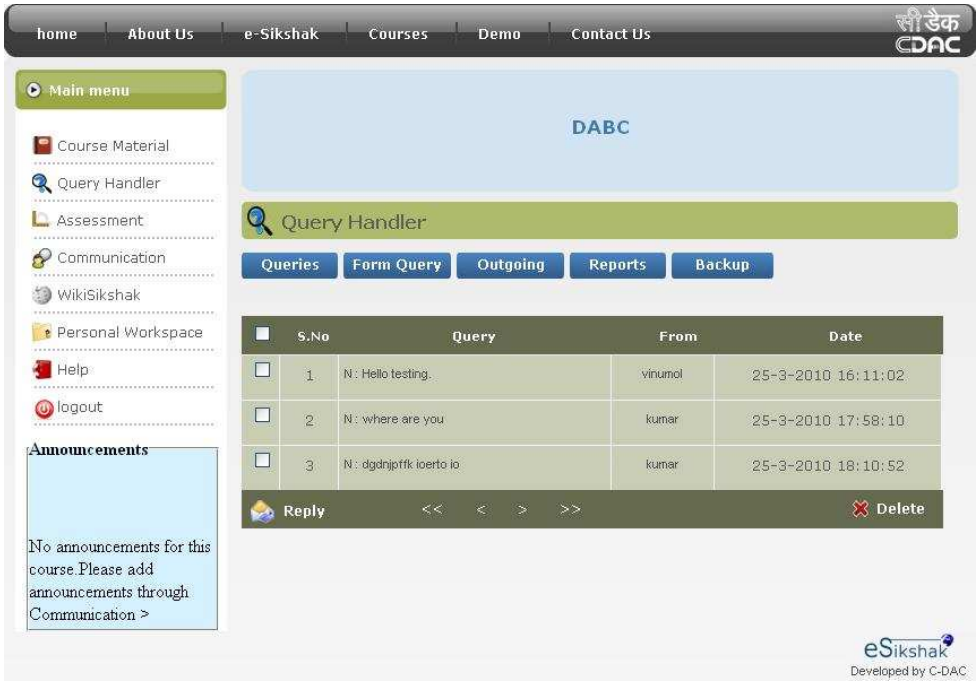


Fig 2. Queries

The objective of this form is to view the query inbox or all the queries which have been sent to the user who is viewing the queries. In addition, the name of the person who has written those queries and date and time are also visible under the From and Date Column.

Clicking on **Reply** will allow the user to send a reply to the query.

Clicking on **delete** will delete the selected queries through marking the check boxes.

Clicking on **>>** will dislay the next set of the queries which cannot be displayed

Clicking on **<<** will display the last set of queries

Upon clicking any of the queries on the subject line, the query is displayed in detail.

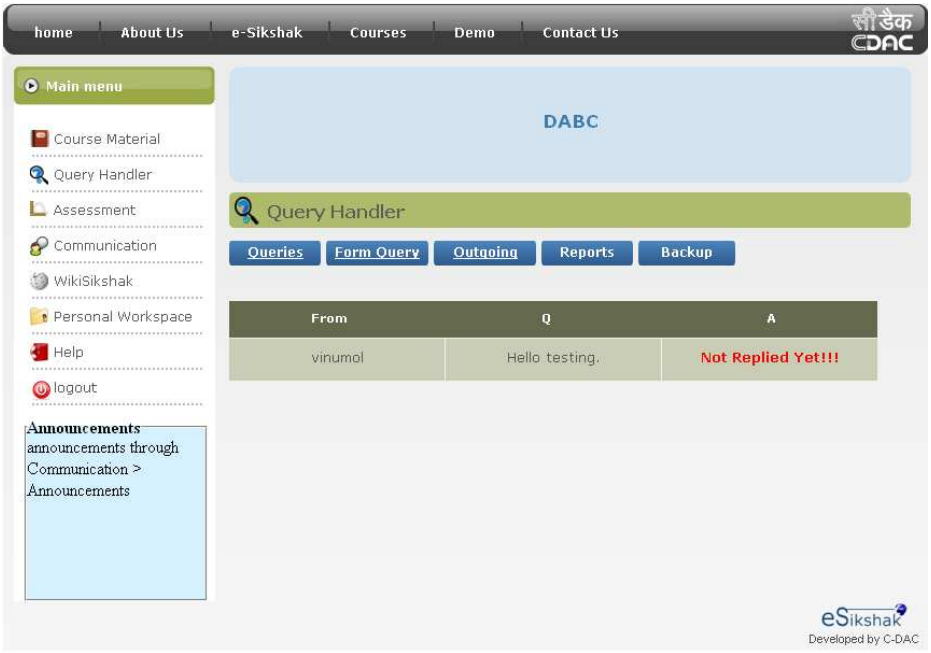


Fig 3. Query text

If the query has already been answered, the query and the answer are displayed, but if the query has not yet been answered, a message '***Not Replied Yet'*** is displayed.

A query that is unanswered may only be replied to or redirected, while an answered query may only be replied to or forwarded.

Form Query (Instructor Mode)

Fig 4. Form Query

Through the form query interface, a new query could be created and sent to other users. A query may either be sent to some of the standard roles that have been defined with specific purposes or to any other user. While sending the query to one of the standard roles, the learner need not be aware of the exact user id, role of the user in the

e-Learning framework or the course to which he or she belongs. He just needs to select one of the standard roles and the query is automatically sent to all those users who have been assigned that particular role/responsibility with respect to that course. This makes it easy to ask questions without knowing the names or user ids or other details of the exact instructor/counselor or one of the other standard roles from which he desires some help. The list of standard roles is provided below: -

Sno	**Role**	**Function**
1	Prime Instructor	All academic queries are directed to the Prime Instructor, by default. He may redirect them to other roles.
2	Administrator	Performs all Course Administration related activities.
3	Counsellor	Counsel the prospective learners on the learning benefits and course alternatives available to them.
4	Others	When this role is selected, the exact user id, role and course id are also to be specified. This option is used whenever a query needs to be sent to a non-standard role or to a user from a different course than that of the sender.

Outgoing queries (Instructor Mode)

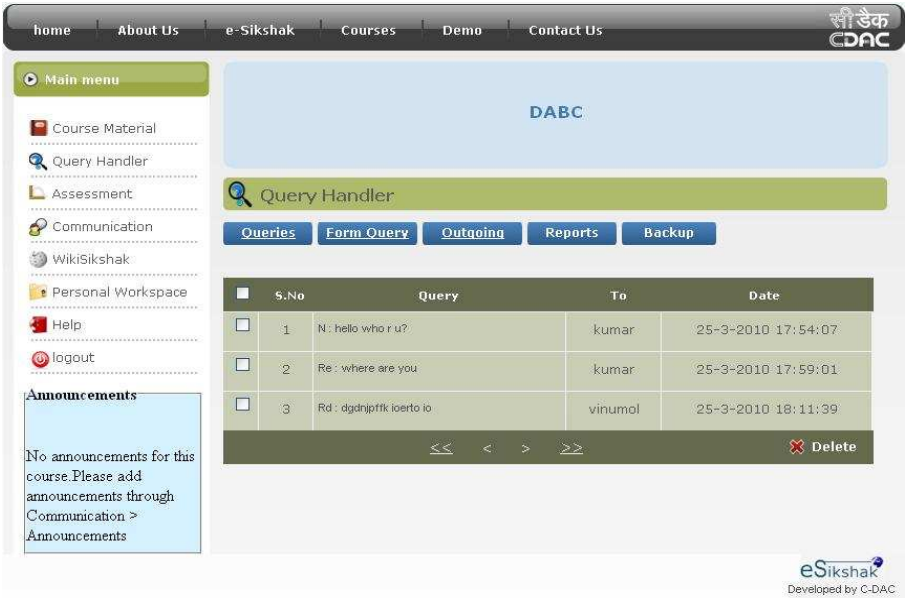


Fig 5. Outgoing queries

In both the query inbox as well as outbox, navigation links are provided for moving forward and backward through the list of queries.

The functionalities of Delete, Previous, Next and Last are similar to the functionalities described in the Form Query Interface.

Reports (Instructor Mode)

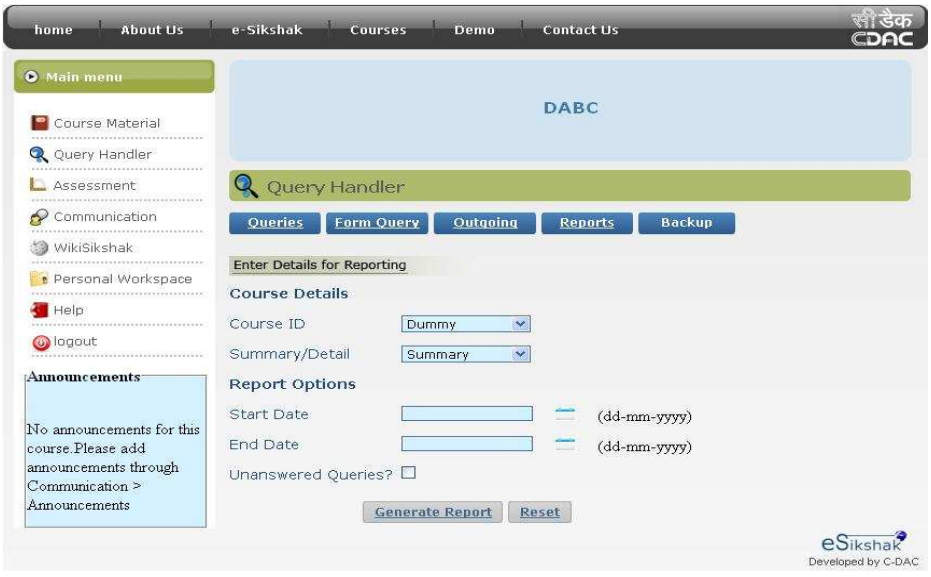


Fig 6. Reports

The above interface allows reporting on multiple aspects. A report could also be built on the constraints by selecting suitable conditions from the interface. In addition, summary or detailed reports may be generated. The summary report displays the total no. of queries in the database, whereas the detailed reports display the details of the unanswered and answered queries.

Start Date and End Date indicate the boundaries of the reporting dates.

When the unanswered queries checkbox is checked in the detailed report, corresponding unanswered queries details are displayed.

When the checkbox is checked, the answered queries with a frequency distribution on the frequency of answering the queries within certain predefined target periods is given.

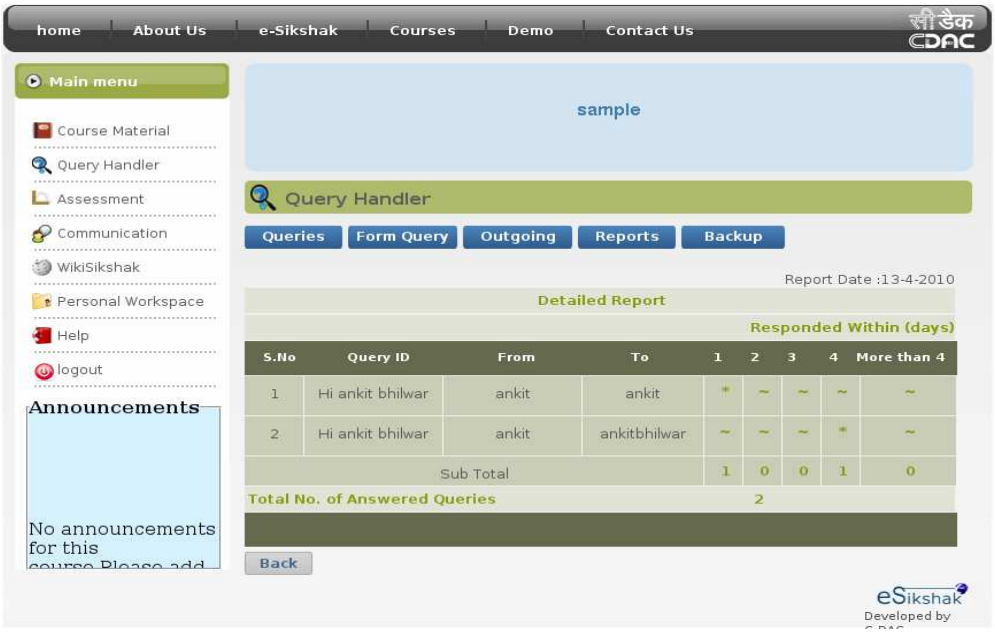


Fig 7. Report

Above screenshot depicts one of the reports, which combines a summary report as well as the detailed report.

Back Up (Instructor Mode)

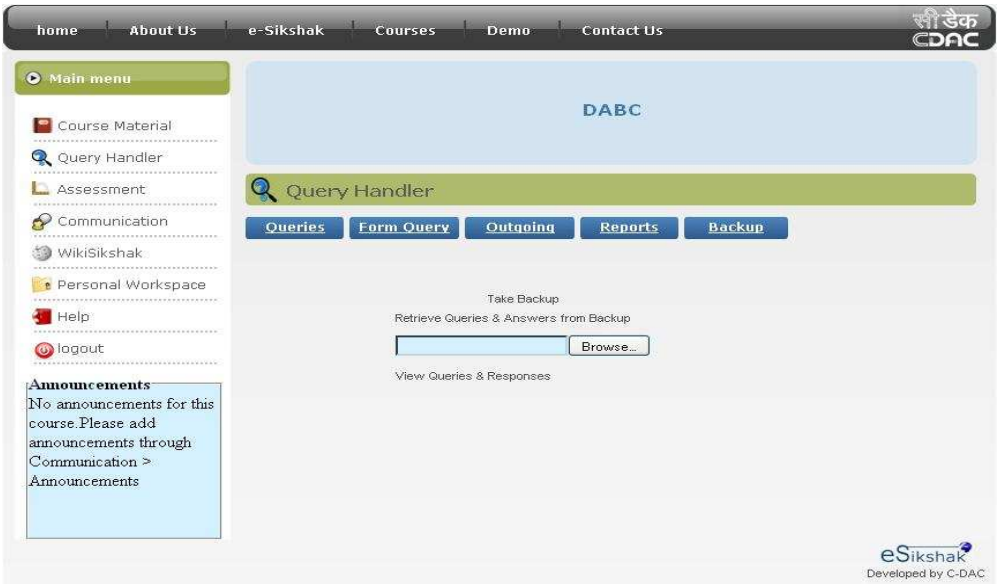


Fig 8. Back up

The objective of this interface is to provide the back up of queries.

Take Backup By clicking on the **take backup link,** a backup is taken in an xml file to a standard location given by ***<tomcat-home>/webapps/<application-virtual-directory>/others/backup.xml*.** This file may later be renamed according to backup conventions prevailing at the site and moved elsewhere.

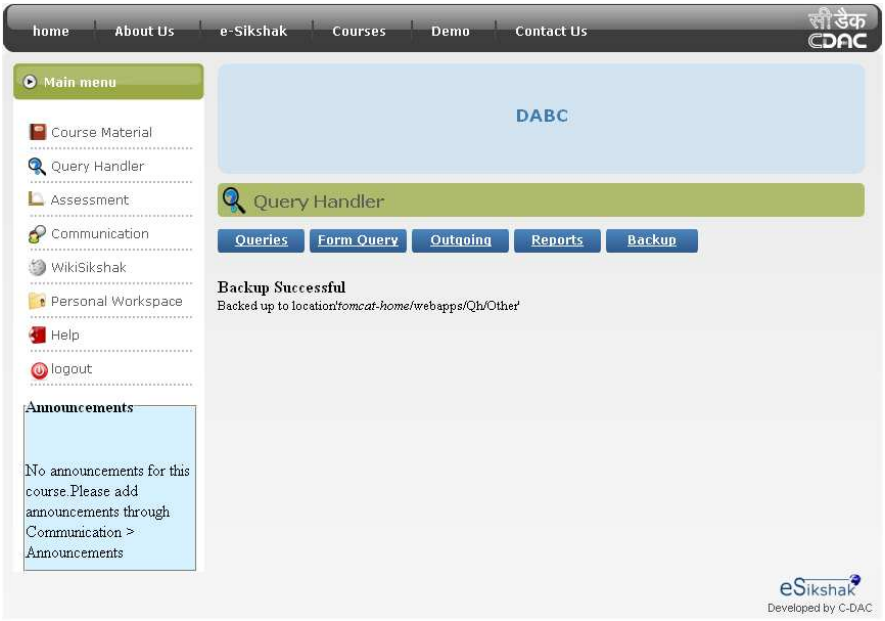


Fig 9. Back up

Retrieve Queries & Answers from Backup

To restore backed up queries from an external xml file into the query management system, browse and select the relevant xml file and then click on the link ***Retrieve Queries & Answers from Backup.*** The entire file is retrieved and the data is stored into the back end database. A list of the retrieved queries and answers is also displayed.

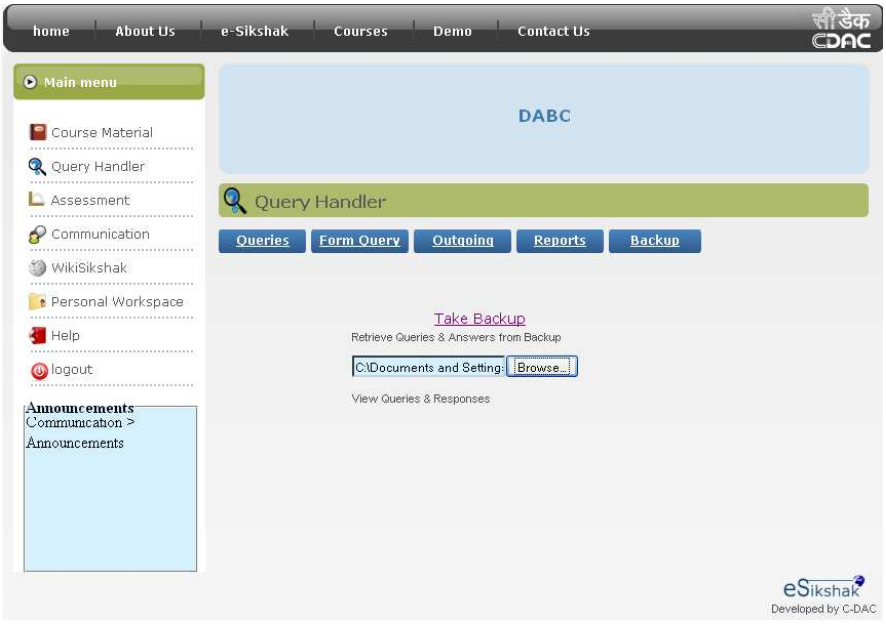


Fig 10. Retrieve queries from back up

View Queries and Responses

The list of restored queries and responses may be viewed by clicking on the third link in the page.

6. User Manual - Email

Introduction

Email is an important component of the communication tools in e-Learning environment. It is primarily an asynchronous form of communication tool. The learners, instructors and other stakeholders of the e-Learning environment could use it to exchange messages, information and knowledge. It could also potentially be used to submit assignments, project reports, etc to the instructor as an attachment. Counselor and other administrative staff could exchange other documents via this system. Thus, it can be clearly seen that the email system is useful to all stakeholders of the e-learning environment.

Brief Description of the functionality

With the help of this user can send mail to any user concerned with the same Course. When a user logs in and clicks on the Email, then the page shown in fig1 will display as the first page.

The home page will open by showing all mail of user in the inbox with the time of posting of mail and subject of the mail. For increasing the user readability, number of mails shown is restricted to five, so at a time only five mails will be displayed. If there are more than five mails in user's inbox then next and last link will be enabled, otherwise they would be disabled. When user clicks on next link the next five mails will be displayed and previous link will be enabled, else it will be disabled.

Email provides facility to the user to send any file as an attachment. Users can create their own folders except for the four default ones (Inbox, Sent Mail, Personal, Trash).

List of instructors is given in the drop down menu allowing the user to see the mail ids of instructors with whom he can communicate.

When any new mail arrives, a message will shown at right side of page stating the number of new mails in the inbox. New mails in the table are shown with name “New”, read(is it for sent mails) mails with “Se”(is it “Rd”) and replied mails with “Re” ..

When a user deletes any selected mail it goes into trash folder, to enable recovery of deleted mails. If a mail is to be permanently deleted from the system, it has to be deleted from the trash folder too. If user sends a mail to an email Id, which doesn’t exist, then a system message stating that the mail could not be delivered is sent as a mail originating from the Administrator.

Inbox

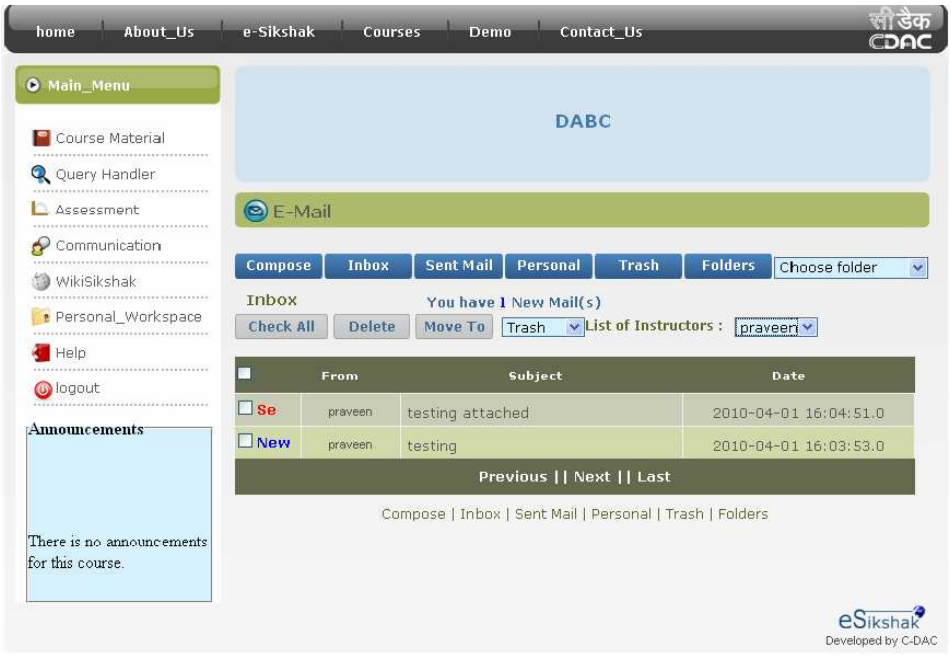


Fig 1: Mail Inbox page

The main objective of this page is to display the mails of the user who has currently logged in. This page displays the list of the instructors to enable the learner to know the mail ids of instructors for the course for which he/she may have enrolled. This page also provides different links to the user, like Sent Mail, personal and other user created folder link.

The functionalities of the various form elements are mentioned below. This page is provided with different buttons like

Check All: This button is used for selecting all mails of the displayed page.

Delete: This button is used for deleting all selected mail.

Move To: This button is used for moving the selected mail to the selected folder.

Compose: This button is given to create new mail.

Folder: This button is given for folder management activities like creation of new folder, renaming the existing folder and removal of any user created folder etc.

Sent Mail

This page displays the mails that the current user has sent to others. Similarly by clicking on any other folder name user can see the mails inside that folder.

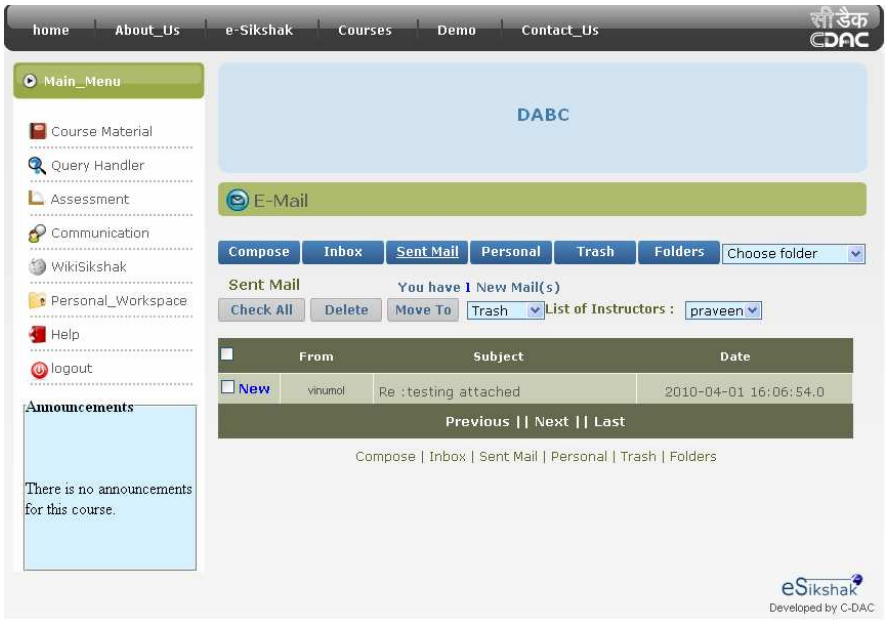


Fig 2: Sent Mail page

Move Mail to Specified Folder

User can move any mail to any other specified folder by checking the mail and by selecting folder name from drop down menu. After selecting folder clicking on Move To Button will move the mail to the selected folder from the current folder. This allows classification of mail based on subject, importance, relevance, source or any other criteria that the user may be interested in. It also helps in keeping the *inbox* clutter-free.

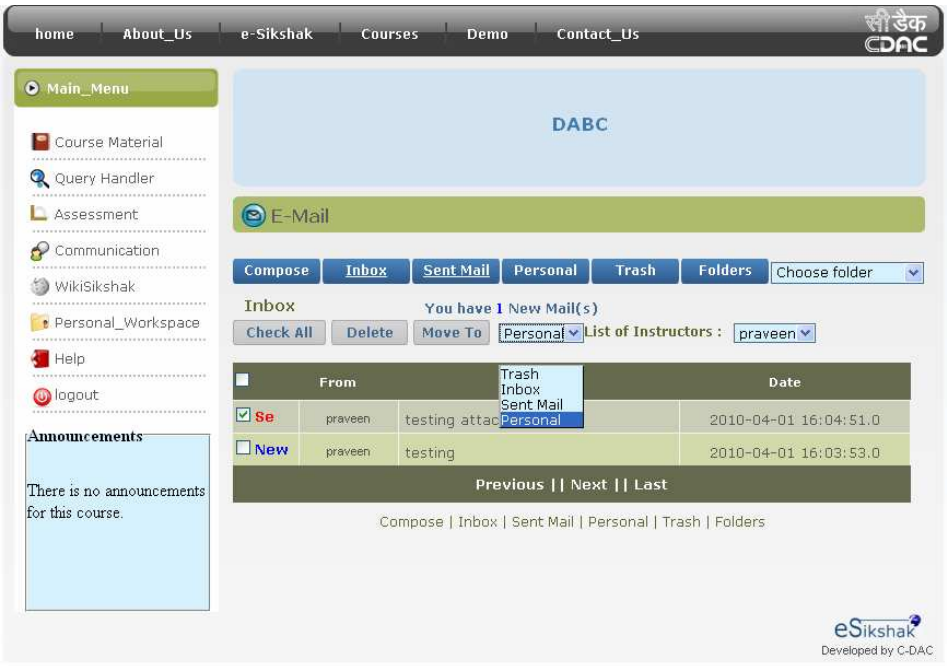


Fig 3:- Mail Transfer to Specific Folder

Check All

Check All button, which is given on the Main Page, is for selecting All Mail at a time, after selecting mails user can delete or send all mails to any specific folder at a time.

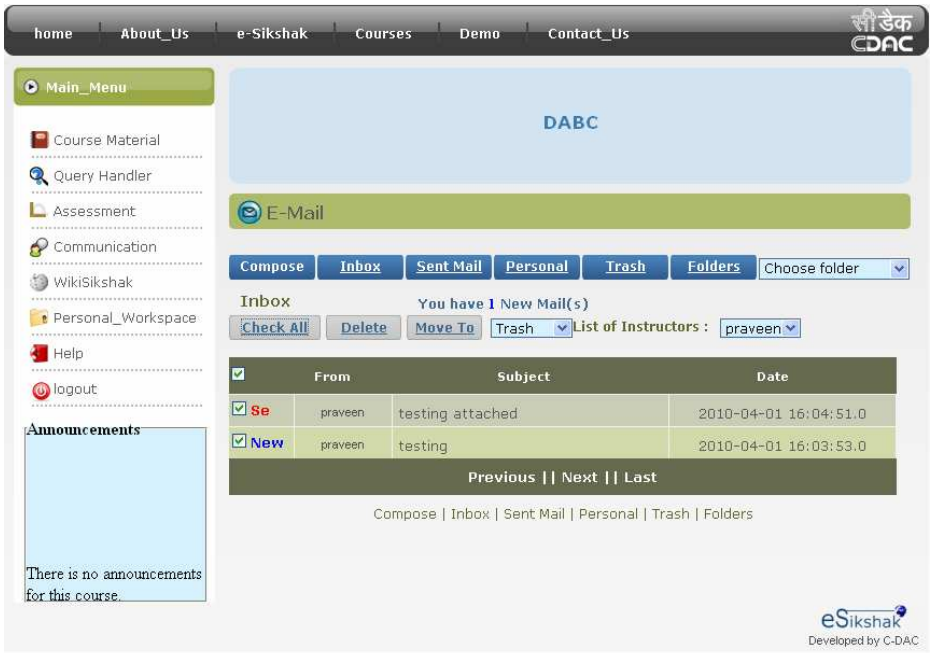


Fig 4: -Page Showing Check All Option

Deleting Mail

For deleting a mail, the user has to select the mail, which he wants to delete, or user can select all mails by clicking on Check All button. After selecting mail(s), the user has to click on Delete Button. Page will refresh and will show the undeleted mails. The ability to select all mails displayed currently is very useful as it allows a user to clear mails of a particular period quickly as such mails are expected to be visible in the same page.

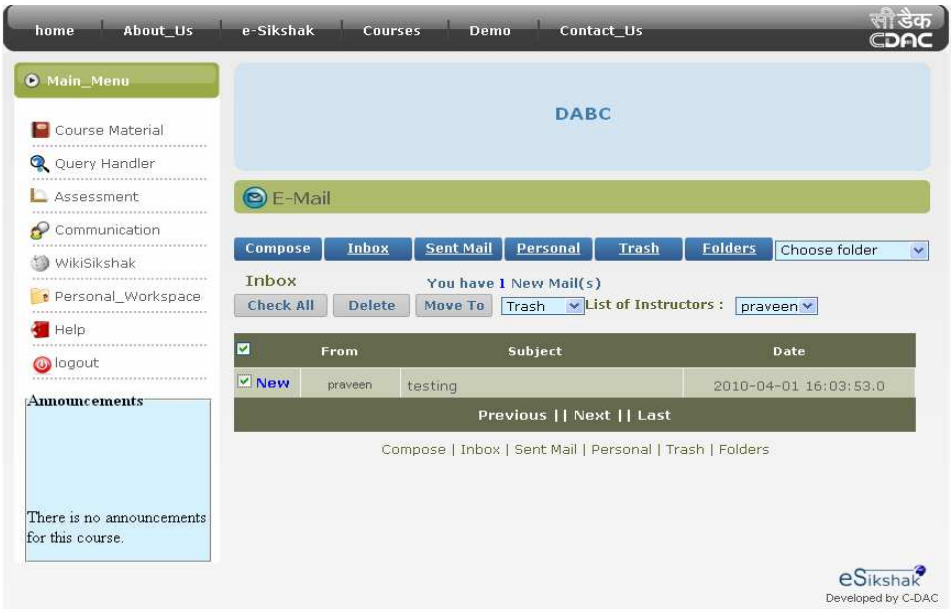


Fig 5: - Shows delete option by selecting individual mail

Compose Mail

Main Page is provided with the button named Compose. User can compose a Mail by clicking on this button. This button is also available from a few other pages and performs the same function. When user clicks on the compose button *Compose Mail* page gets displayed. Fig 6 is a screenshot of the page and is illustrative of all the features provided therein.

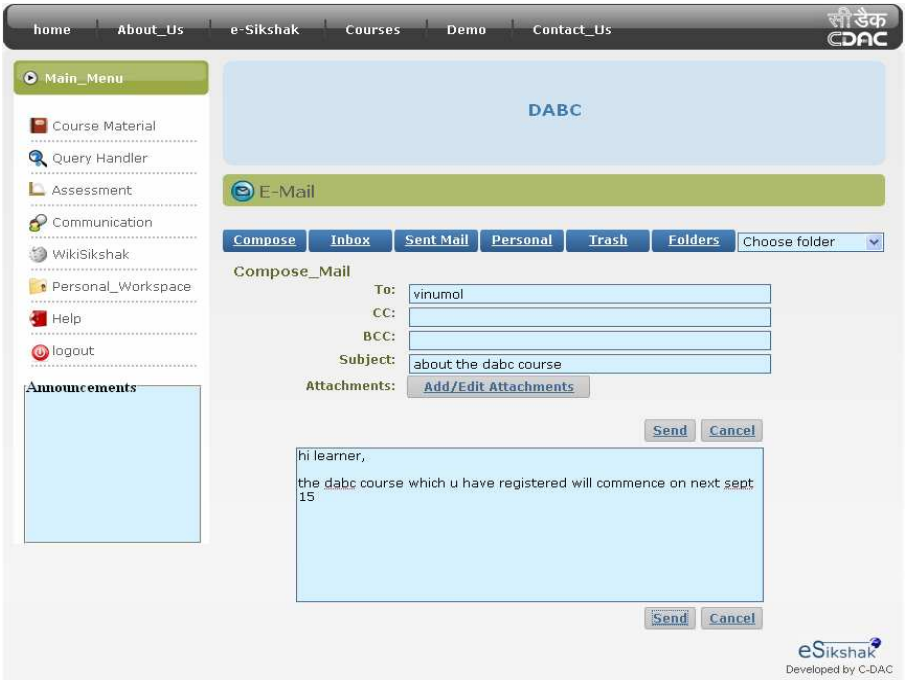


Fig: -6 Page for compose mail

User has to fill the To block with the email id of the person to whom user wants to send mail. User can send the same mail to other person, by writing other users email id in CC and BCC Space. Space is provided for the subject also; user can provide the subject of the mail. If user doesn't give any subject software will itself fill this block with "No Subject". Here Space is provided for writing the mail. User can attach some file with the mail. There is a restriction of three (3) attachments at a time.

This page also provides link for inbox, Sent Mail and trash. User can move to these folders by clicking on them.

Some Buttons are also given like Check Mail, Folder, Send, Cancel and Add/Edit attachment.

Check mail: This button will bring you on the inbox of main page to show you your mails.

Folder: Folder button will take you to the folder management page to manage the folder.

Send: This button helps you in sending your mail after it has been composed.

Cancel: This button will stop your process of sending mail and bring back you to the main page.

Add/ Edit attachment: With the help of this button users can attach any file with their mail.

Upload Attachment:

This page allows users to attach any file when he/she clicks on Add/Edit attachment button. After clicking on the button the files will be shown for selection.l . Here user is provided with the facility to select the file, which he wants to attach.

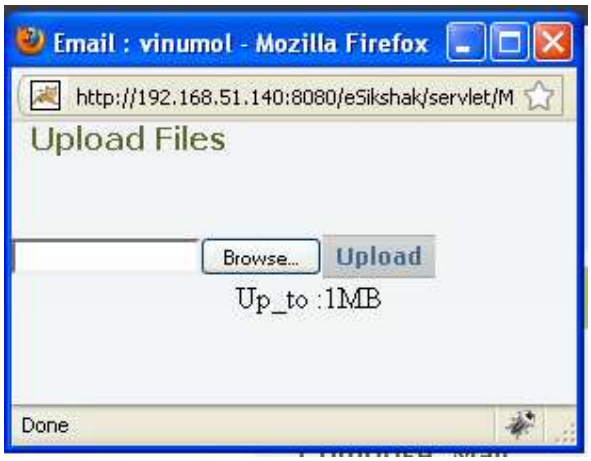


Fig: 7 page for upload file

Selecting Files

When user clicks on Browse button then a file dialog box appears, and the user can select his file from here. After selecting file user has to click on open button of file dialog box.

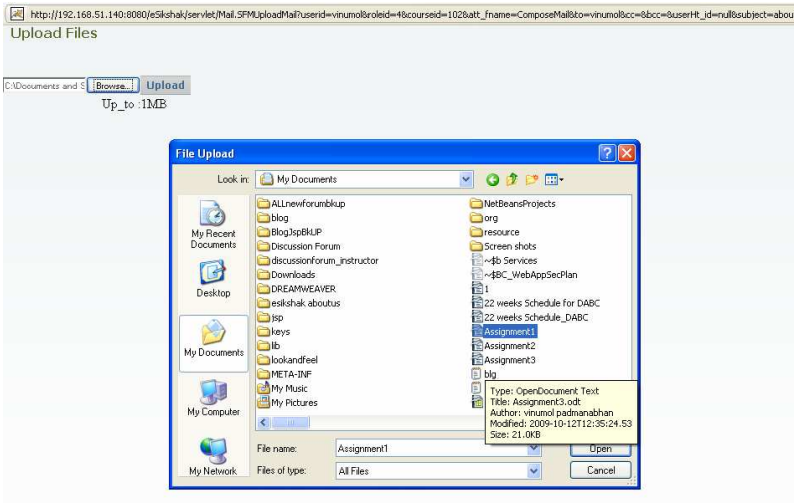


Fig: 8 page showing selection of file for attachment

Getting file name with path

When user click on the open button of file dialog box then, the complete file name with path becomes visible inside the space provided on Upload file Page

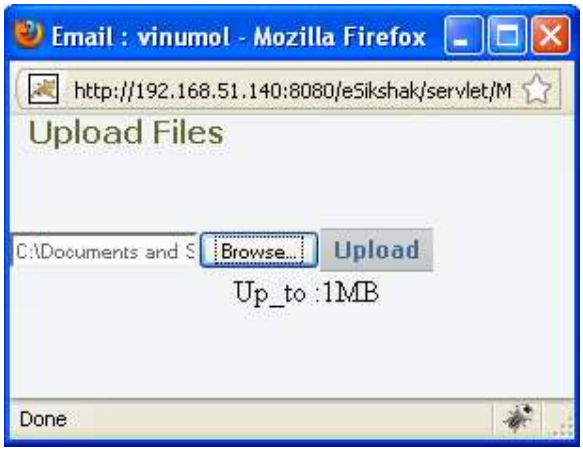


Fig 9: page shows the file name with complete path

Upload Complete

When user clicks on the Upload Button, then a page displays with message that the upload has completed successfully. An Ok Button is provided to allow the user to dismiss this page after reading the message.

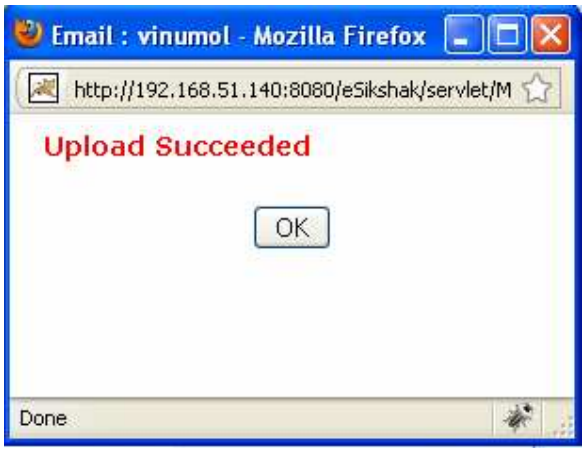


Fig 10: -page shows that the uploading of file is successful

Compose file with Attachment

When the user clicks on the OK Button, the compose page with attachment file name is displayed. Now the user may type the message or add further attachments or finally send the mail upon completion of typing the message and attaching the desired attachments.

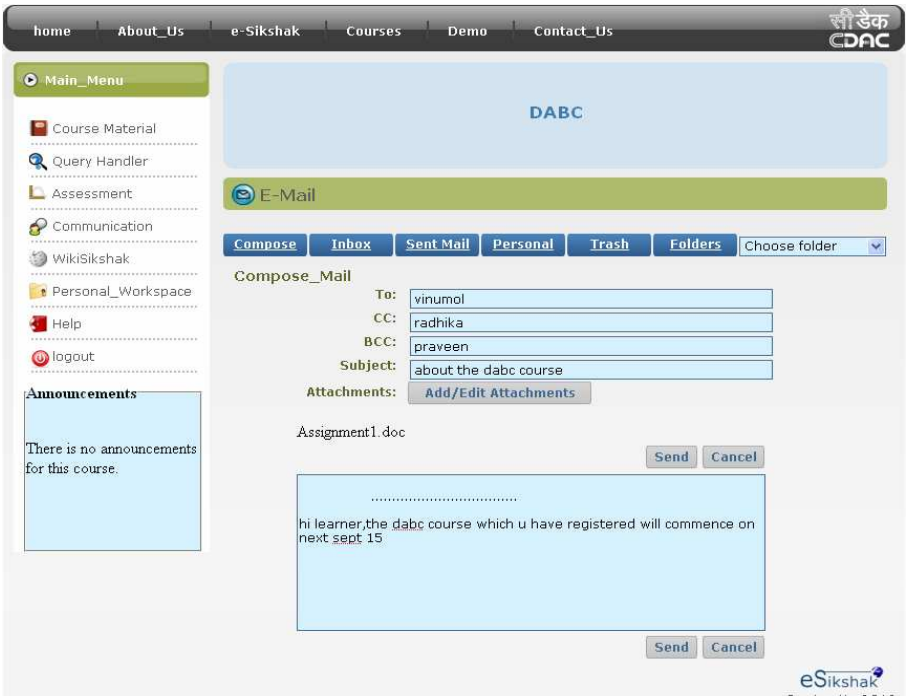


Fig 11:compose mail page with attached attachment

Send Mail

When user clicks on the Send button of compose mail page then a page is displayed stating that the mail was sent successfully. The displayed page also contains links to the inbox and composes mail pages.

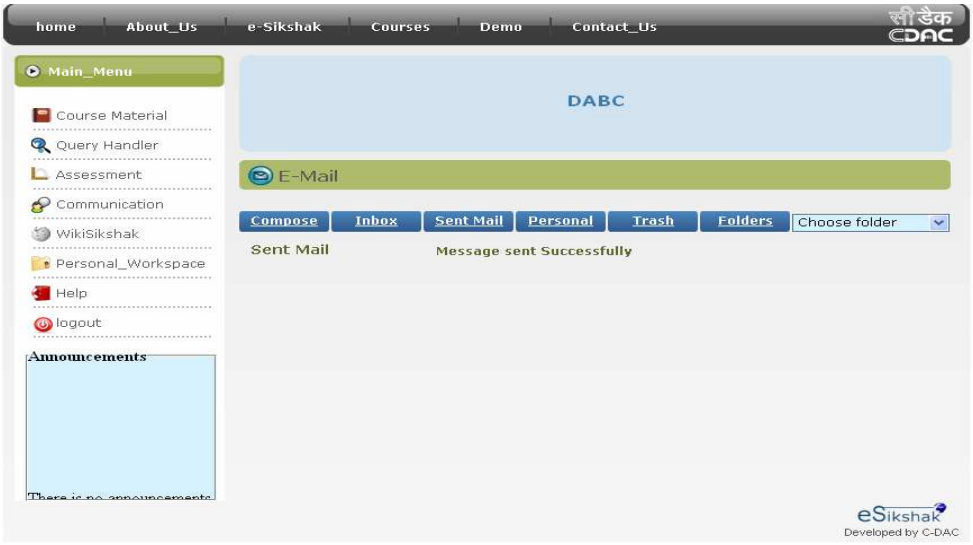


Fig-12: page shows that mail has been sent successfully

Folder Management

The main page is provided with the Button Folder, to manage the folder related work. By clicking on this button user will get a page from where user can do some folder management.

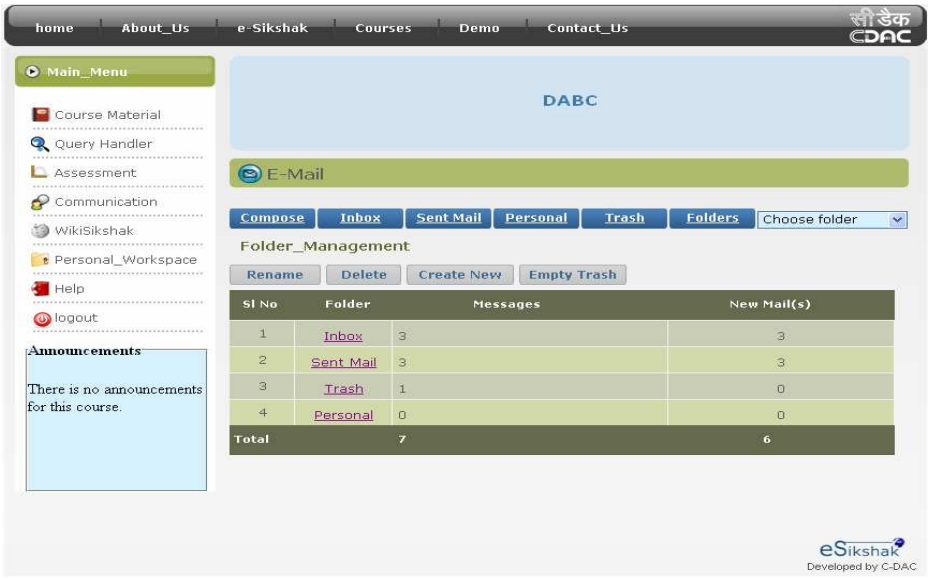


Fig-13 Main page showing click on Folder Button

Folder Page

This page is provided with the buttons Rename, Delete, Create New and Empty Trash.

Create New

When a user clicks on this button a new page is displayed where space is given for writing the name of folder. ADD and Back buttons are there, if user clicks on the ADD button then the folder with the written name will create and folder management page will be shown with the added folder. When Back button is clicked the page will come back to folder management page without adding the folder.

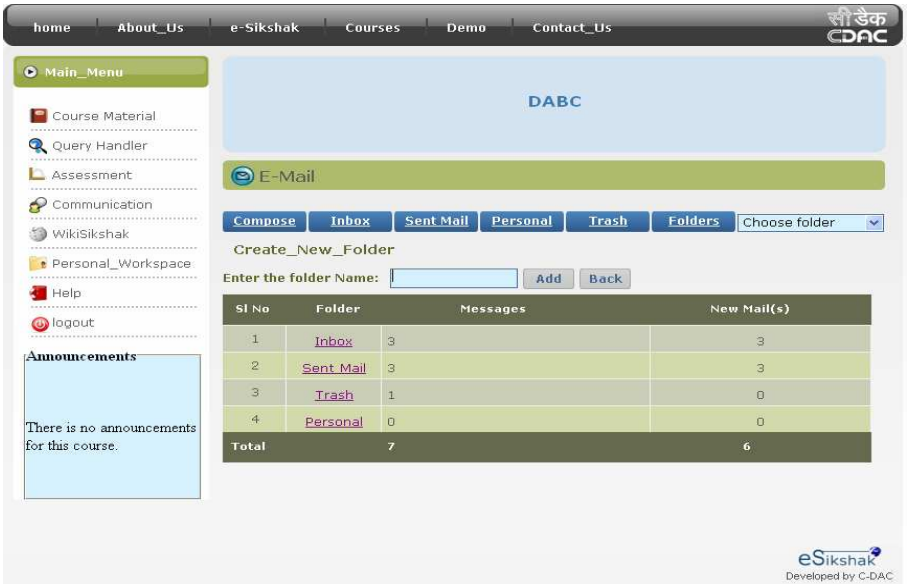


Fig: 15 Page for creation of new folder

Rename folder

When user selects any user created folder (only user created folders can be modified) and clicks on Rename button, a page appears which provides space for writing the other name of selected Folder, Button submit and back is given, if user selects submit then the folder name is changed with the name given, otherwise if back button is clicked then the folder name remains unchanged and will be shown with the same old Folder name.

The figure below depicts the process of entering a new folder name and clicking on the same.

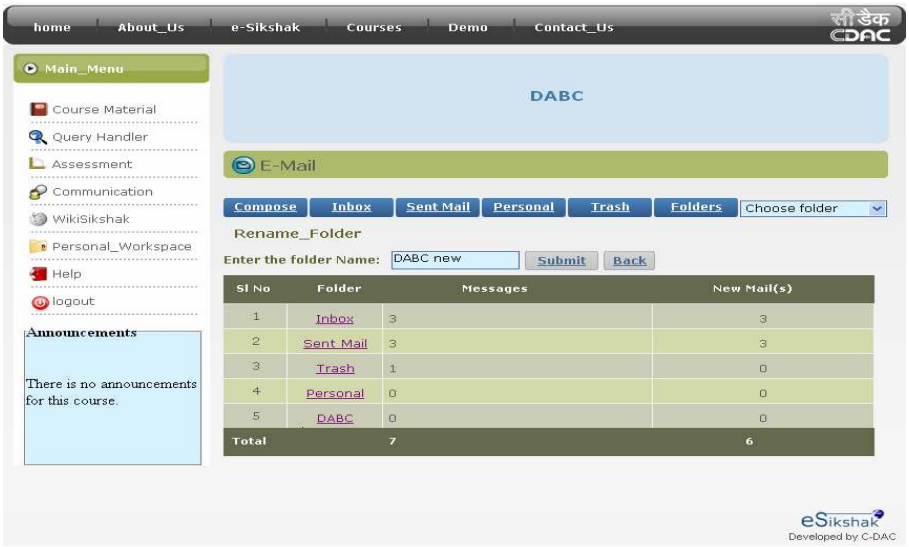


Fig-17: page showing Renaming of an existing folder

Folder name changed

When user clicks submit button then folder management page shows the folder with changed name.

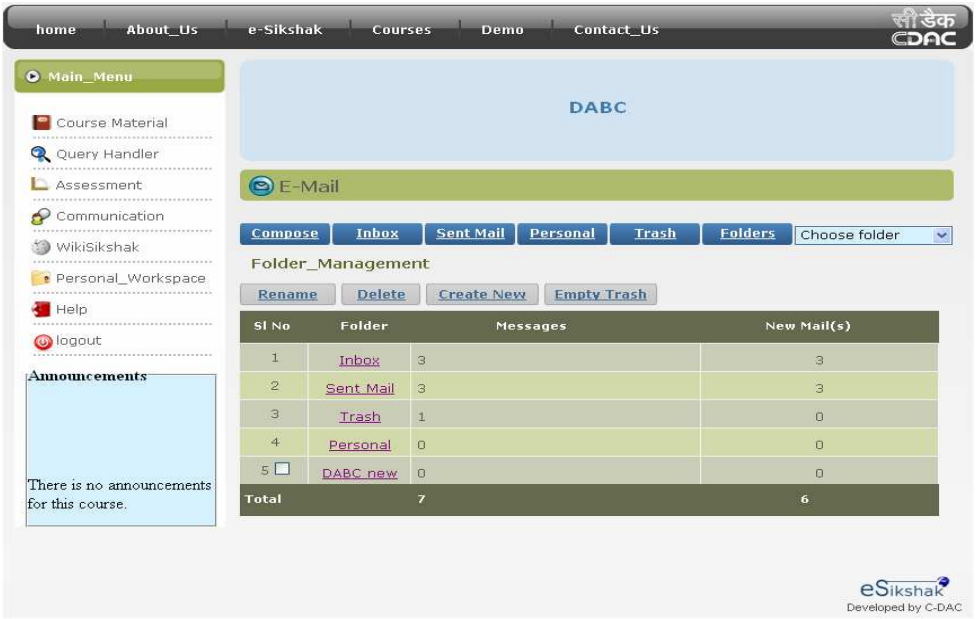


Fig: 18 Page displaying the changed folder name

Empty Trash

Objective of this button is to delete all mail from the trash folder. When this button is clicked, mails inside trash folder are deleted.

How to read a mail and view the attachment?

When a user comes to main page he can read the mail by clicking on the link From of the mail. When user clicks on the hyperlink under the *From* heading, then mail opens, user gets the contents of the mail from here. If there is any attachment on that mail then user can get that attachment by clicking on that attach file name.

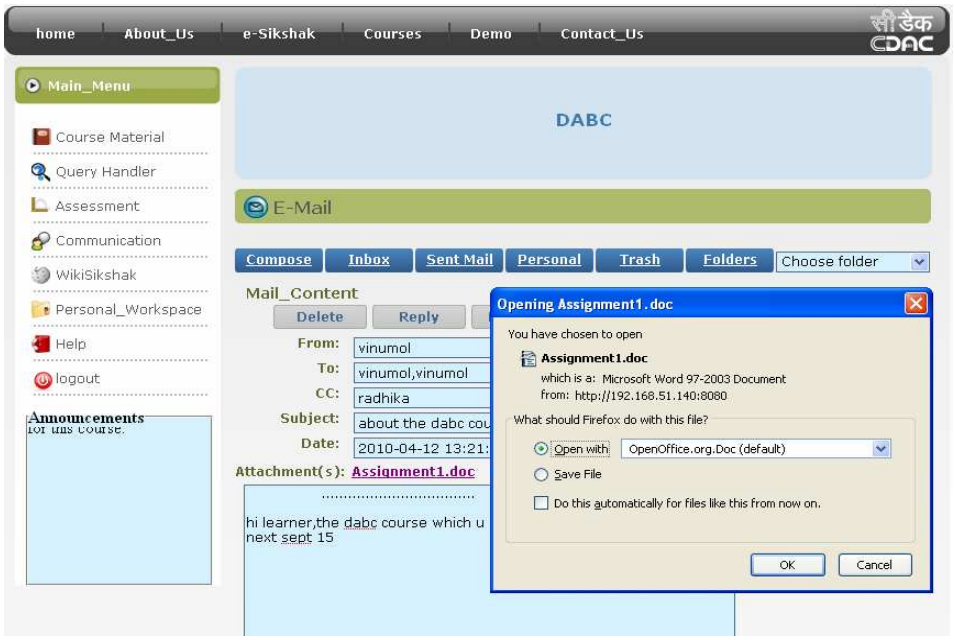


Fig: 19 page showing opening the attach file

When user clicks on the attachment then a dialog box appears, this dialog box have open, save, cancel and more info buttons, if user just wants to see the attachment then he has to click on the open button, if user wants to save the attachment then he has to click on save button.

To save attachment

When user clicks on save button then a file dialog box appears and he can save the attachment in the desired directory with desired name.

Forward mail

User can forward his/her mails by clicking on the Forward button of the read mail page. Your attachment will be intact in forward mail case. User has to write receiver id, and can write a message also. The mail with attachment will be forwarded to receiver's id.

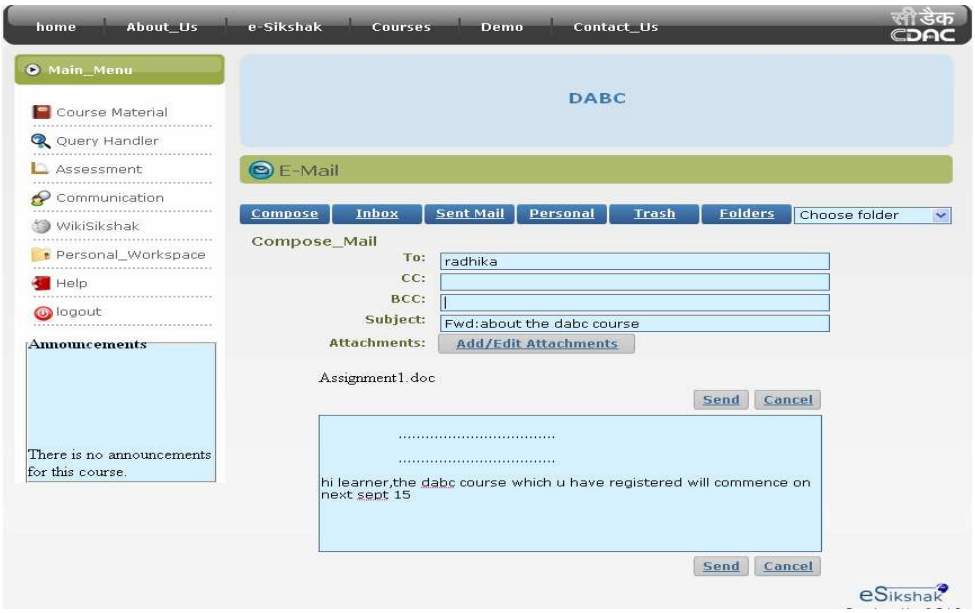


Fig: 21 Page for forwarding the message

Reply Mail

User can reply the mail by clicking on the Reply button. In this case the received attachment will not remain attached. The To block will itself be filled with the receiver's id. After writing any message user can attach any different attachment or the same attachment explicitly.

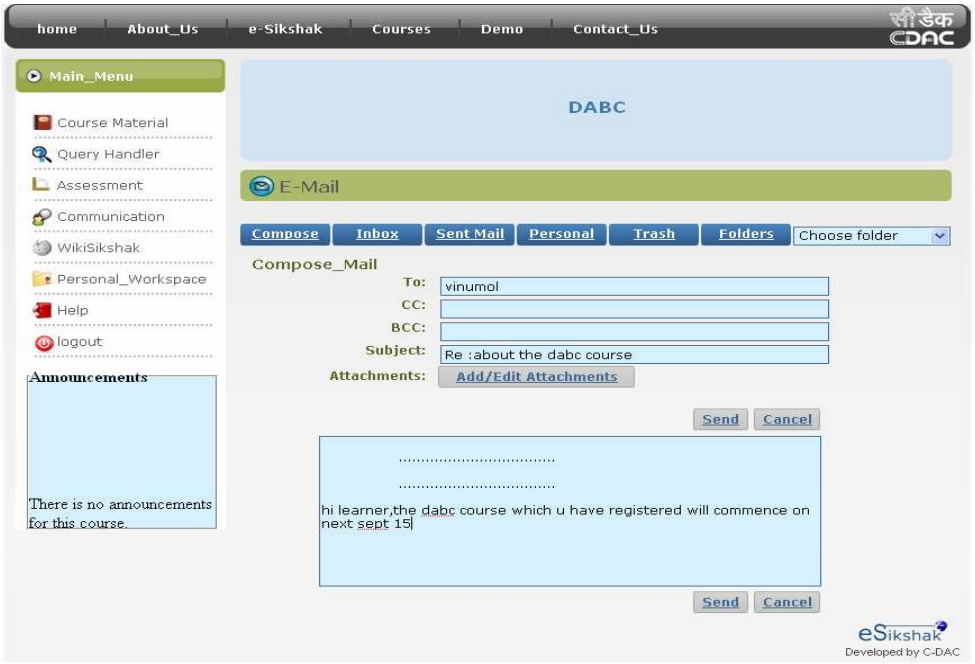


Fig: 22 Page for replying the message

7. User Manual - Blog

Introduction

A **blog** component of eSikshak allows the user to post regular entries of commentary, descriptions of events, or other material. The ability of readers to leave comments in an interactive format is an important feature of this component.

Brief functionality

Both instructor and learner have equal privileges to publish new post to the blog. He or she can edit the post, can view the comments, can modify their own posts etc.

Blog main menu (Instructor / Learner Mode)

The main objective of this page is to provide various options for managing the blog posts published by the particular user. The Blog main page has following options:

Blog, View Post, New Post, and Search

Fig.1 Blog home page

Blog Home

This link will lead to blog home page where the authenticated user can view all the recently published posts in blog. The link on title will lead to a page which shows particular post and comments. The author link displays all the post of that particular author who logged in. The edit page displays all the post of that particular user who logged in, where he can edit his posts

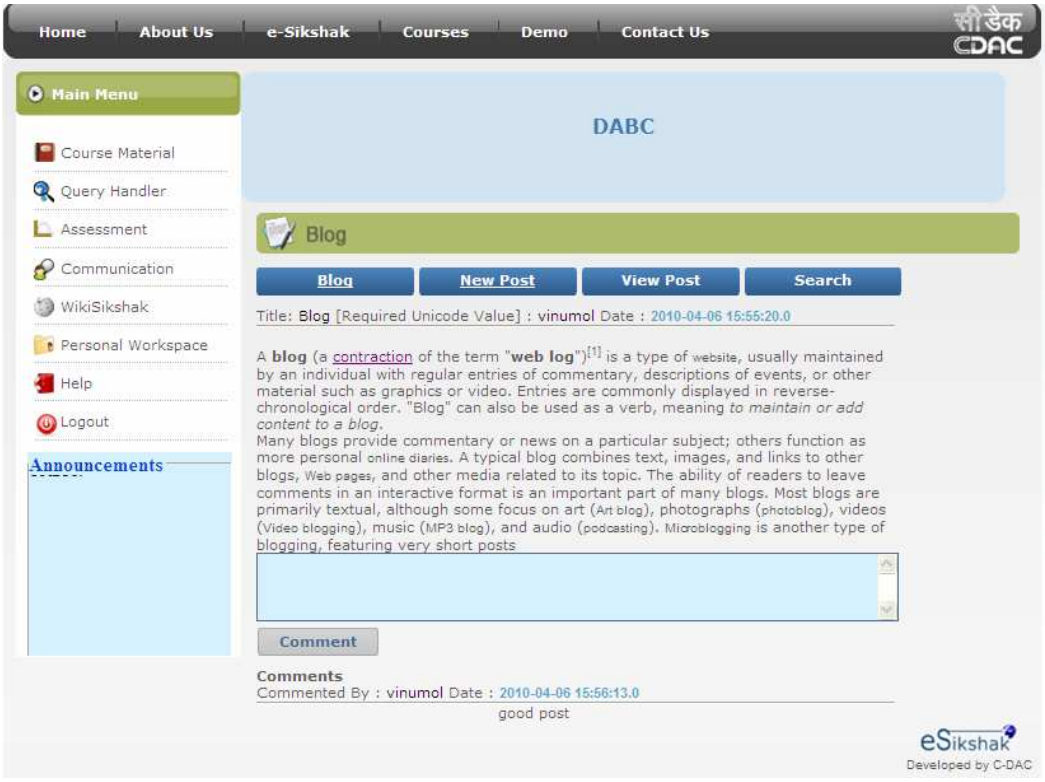

Home
About Us
e-Sikshak
Courses
Demo
Contact Us
Main Menu
Course Material
Query Handler
Assessment
Communication
WikiSikshak
Personal Workspace
Help
Logout
Announcements
DABC
Blog
Blog
New Post
View Post
Search
Title: Blog [Required Unicode Value] : vinumol Date : 2010-04-06 15:55:20.0
A blog (a contraction of the term "web log")[1] is a type of website, usually maintained by an individual with regular entries of commentary, descriptions of events, or other material such as graphics or video. Entries are commonly displayed in reverse-chronological order. "Blog" can also be used as a verb, meaning to maintain or add content to a blog.
Many blogs provide commentary or news on a particular subject; others function as more personal online diaries. A typical blog combines text, images, and links to other blogs, Web pages, and other media related to its topic. The ability of readers to leave comments in an interactive format is an important part of many blogs. Most blogs are primarily textual, although some focus on art (Art blog), photographs (photoblog), videos (Video blogging), music (MP3 blog), and audio (podcasting). Microblogging is another type of blogging, featuring very short posts
Comment
Comments
Commented By : vinumol Date : 2010-04-06 15:56:13.0
good post
eSikshak
Developed by C-DAC

Fig :3 This page displayed after clicking on the **Title** link

New Post

This functionality allows the user to publish new post in the blog. Give appropriate title for the post and content of the post can be posted in the editor text area. The user can make his post private by check on private. The post can be published by click on post button.

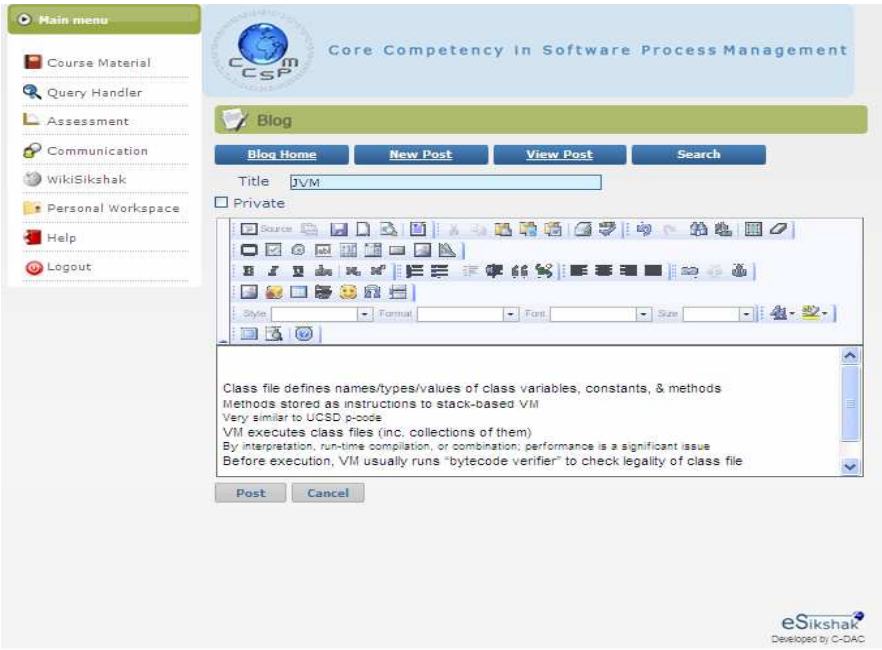


Fig.4 New Post

View Post

This functionality allows the user who logged in to edit his posts(modify, delete, view comments) .Modify Post option allows the user to modify his own posts. 'View comments ' operation will allow the user to view the comments on his post. 'Delete ' option will allow the user to delete his posts.

Fig. 5 View Post

Search

This provides the feature of searching blogs based on author name, title and date. Searching can be done based on the author, date, title by placing appropriate value in search box and check on the particular check box.

Fig 6 Search

8. User Manual - WikiSikshak

Introduction

A **WikiSikshak** allows the easy creation and editing of any number of interlinked pages using a simplified markup language or a text editor. WikiSikshak is useful like personal note taking and in knowledge management systems. WikiSikshak may exist to serve a specific purpose, and in such cases, users use their editorial rights to remove material that is considered "off topic."

Brief functionality

When the user logs in, module will check whether the user is learner or instructor. Depending upon the role WikiSikshak main page will be displayed.
Instructor has the privileges to create Pages and Edit the content, Upload the attachments, checking difference between different versions, deleting attachments, deleting pages, finding the content, making the clone pages, post/edit the comment and rename the page.

WikiSikshak main menu (Instructor & Learner Mode)

The main objective of this page is to provide various options for managing the WikiSikshak pages.

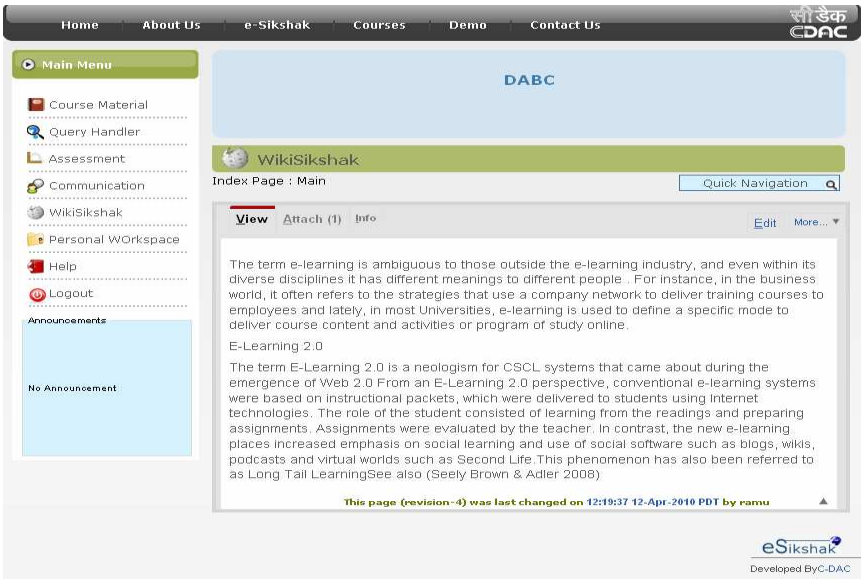

Home
About Us
e-Sikshak
Courses
Demo
Contact Us
CDAC
Main Menu
Course Material
Query Handler
Assessment
Communication
WikiSikshak
Personal WOrkspace
Help
Logout
Announcements
No Announcement
DABC
WikiSikshak
Index Page : Main
Quick Navigation
View
Attach (1)
Info
Edit
More...
The term e-learning is ambiguous to those outside the e-learning industry, and even within its diverse disciplines it has different meanings to different people . For instance, in the business world, it often refers to the strategies that use a company network to deliver training courses to employees and lately, in most Universities, e-learning is used to define a specific mode to deliver course content and activities or program of study online.
E-Learning 2.0
The term E-Learning 2.0 is a neologism for CSCL systems that came about during the emergence of Web 2.0 From an E-Learning 2.0 perspective, conventional e-learning systems were based on instructional packets, which were delivered to students using Internet technologies. The role of the student consisted of learning from the readings and preparing assignments. Assignments were evaluated by the teacher. In contrast, the new e-learning places increased emphasis on social learning and use of social software such as blogs, wikis, podcasts and virtual worlds such as Second Life.This phenomenon has also been referred to as Long Tail LearningSee also (Seely Brown & Adler 2008)
This page (revision-4) was last changed on 12:19:37 12-Apr-2010 PDT by ramu
eSikshak
Developed ByC-DAC

Fig.1 Wikisikshak home page

View

This Tab will lead to display content of that page.

Attach

The main objective of this page is to allow instructor or learner to upload the attachments

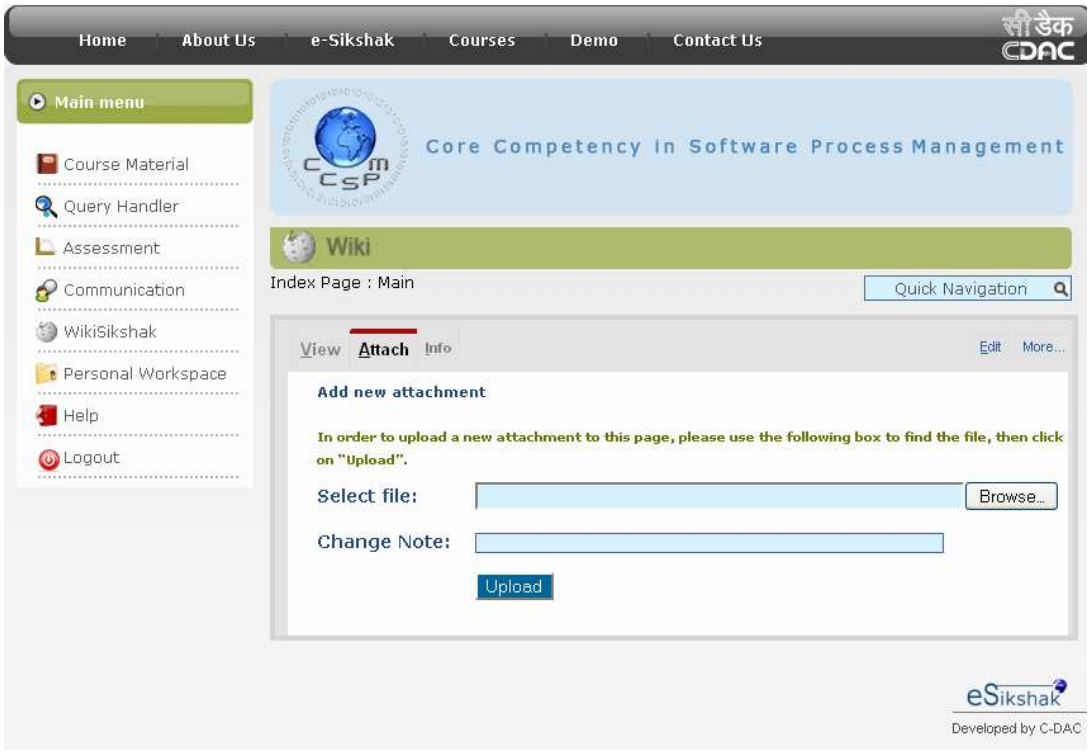


Fig.2: Attachment tab

By clicking on browse button file selection box will be opened and user can select the file on clicking the upload button the attachment will be added.

Change note: Users can give some description about that file

After uploading attachment only the instructor has the privilege to delete the attachments.

Info

The main objective of this page is to allow instructor or learner to rename the pages, check the difference between the various versions of a particular page and to see the incoming and out going links for that particular page.

Only instructor has the privilege to delete the pages

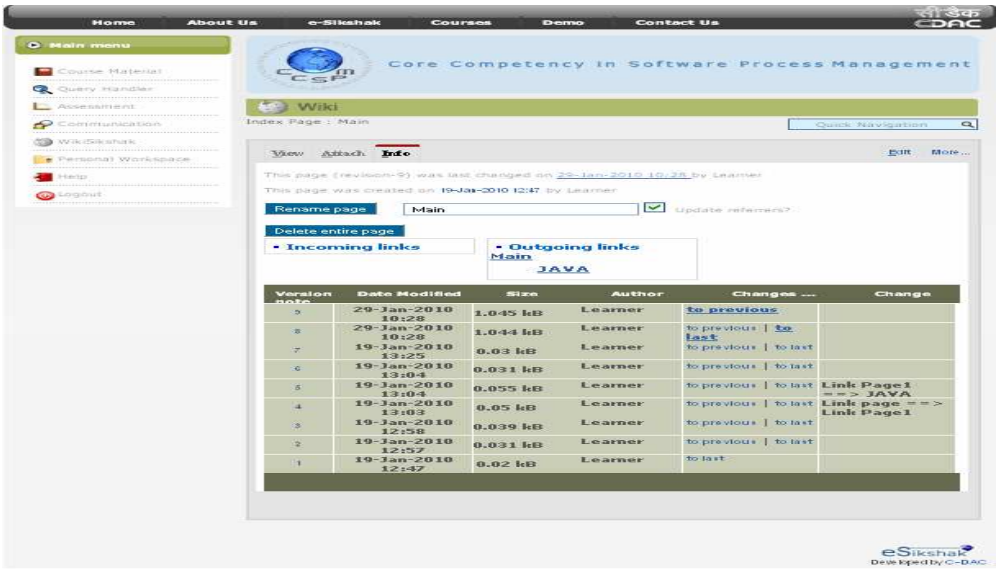


Fig.3: Info tab

Edit

The main objective of this page is to allow instructor or learner to edit the page content. Clicking on edit, one editor will be opened. In that editor user can write the content and by clicking on save button that content will be saved. Clicking on the preview button user can see the preview of that page. Clicking on cancel button the user can cancel the editing. By checking the sneak preview check box the user is able to view the preview of that page with in the same page

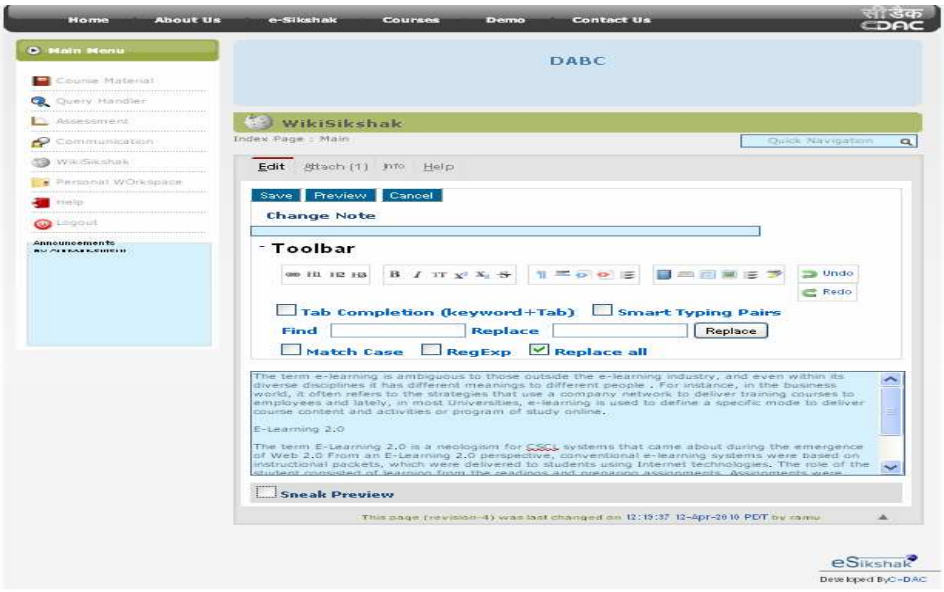


Fig 4: Edit Page

More → Add Comment

This functionality allows the user to add comments to a particular page. Clicking on Add comment one editor will be opened and with that editor user can add the comment. Clicking on save button the comment will be posted. Clicking on preview the posted comment preview can be seen by the user. Clicking on cancel user can cancel adding the comment

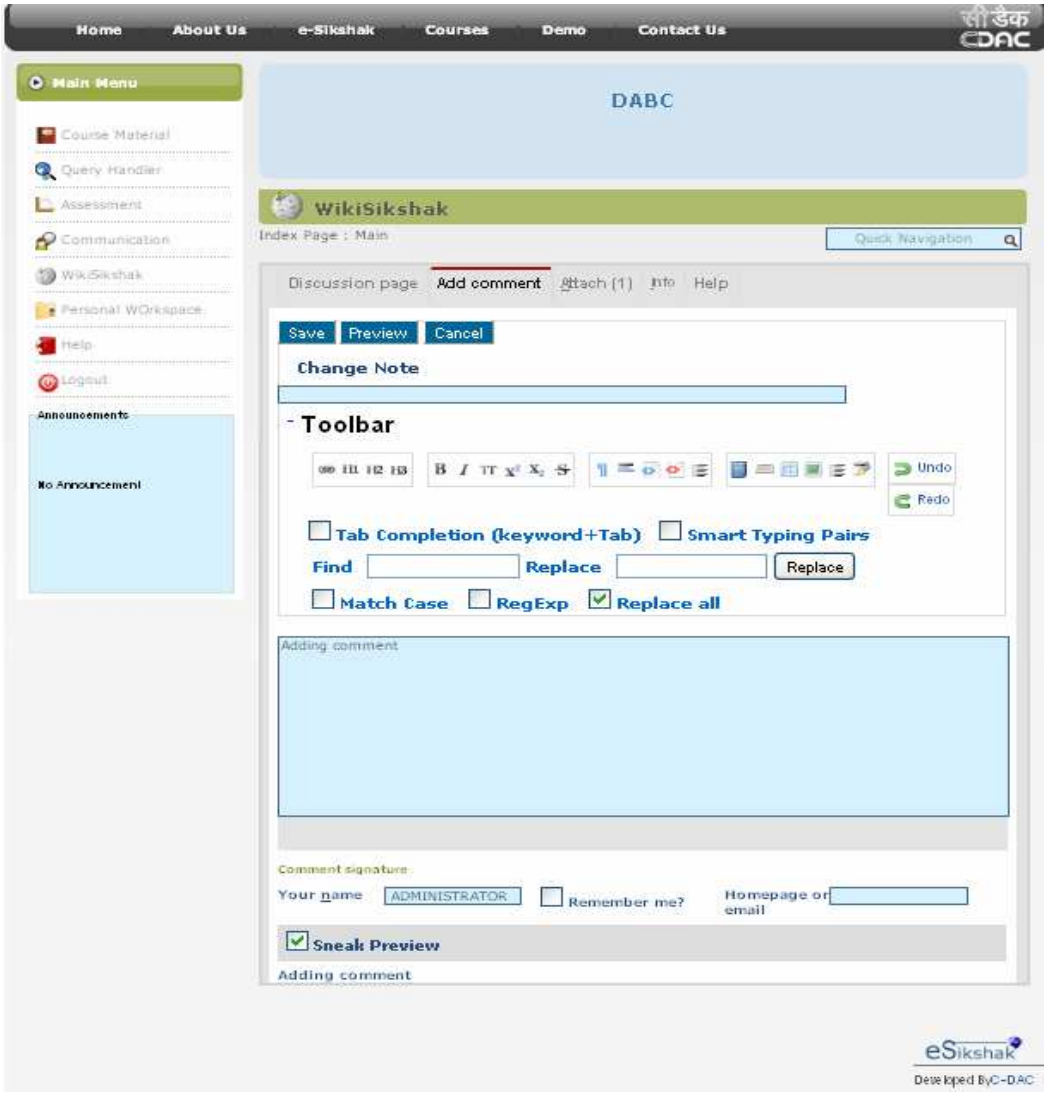


Fig 5: Add Comment Page

View Page Source

This functionality allows the user to see the content of that page.

Quick Navigation

This functionality allows the user to find the content in the wiki sikshak. To clone the pages, view the content of particular page, edit the content of the specified page. When user keeps the mouse over quick navigation one popup will be generated with the find, clone, edit and view options.

Find

The main objective of this page is to allow the instructor or learner to search content in WikiSikshak. This below page will be displayed after finding the content

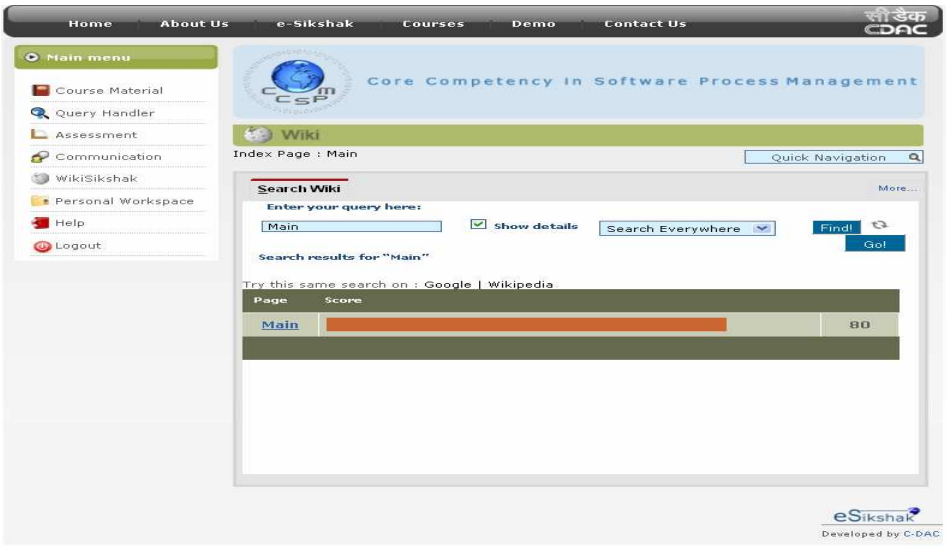


Fig 6: Search Page

By entering text in text box and clicking on find button it will display the page names where the content matches other wise message will be displayed, as content is not found. By clicking the go button it will display the places of occurrence of that content. By checking the show details checkbox in that page it self it will display the found content.

Clone

The main objective of this page is to allow the instructor or learner to create the clone for selected page.

Text Formatting Rules for editing the page in WikiSikshak is described in Annexure I.

9. User Manual – RSS Reader

Introduction

RSS Reader is a good feature for e-Learning environment. RSS (most commonly expanded as "Really Simple Syndication") is a family of web feed formats used to publish frequently updated works-such as blog entries, news headlines, audio, and video-in a standardized format. An RSS document (which is called a "feed", "web feed", or "channel") includes full or summarized text, plus metadata such as publishing dates and authorship. Web feeds benefit publishers by letting them syndicate content automatically. They benefit readers who want to subscribe to timely updates from favored websites or to aggregate feeds from many sites into one place. RSS feeds can be read using software called an "RSS reader", "feed reader", or "aggregator", which can be web-based, desktop-based, or mobile-device-based. A standardized XML file format allows the information to be published once and viewed by many different programs. The user subscribes to a feed by entering into the reader the feed's URI or by clicking an RSS icon in a web browser that initiates the subscription process. The RSS reader checks the user's subscribed feeds regularly for new work, downloads any updates that it finds, and provides a user interface to monitor and read the feeds.

RSS formats are specified using XML, a generic specification for the creation of data formats. The (" ") icon was decided upon by several major Web browsers for RSS feeds.

Brief Description about the functionality

RSS Reader feature link is under “Personal Workspace” for learner and instructor role. For enjoying with this feature server should be connected with Internet and to retrieve full content of any item of feed client should be connected with Internet. With the help of this “RSS Reader” feature user can add his/her own interested subscriptions (feeds), which can be taken from different web sites. After successfully added with his/her account, user can subscribe those updated feeds any time to stay in this e-Learning environment. There is no need to open those web sites to read the

subscriptions (feeds) because here we provide the interface to read those sites's information as blog entries, news headlines. User can also see his/her own all list of feeds and if after some time user is not interested to continue with a particular feed then user can unsubscribe (delete) that feed. If user is subscribing any feed and in between user is interested to update the feed then user can also refresh the page by "Refresh" button provided by our environment, refresh provides the updated current informations.

Display All Feeds / Display Subscription

This is main page/first page of "RSS Reader". The main objective of this page is to display all feeds which are already added with user's own account.

If user has not added any subscription (feed) or logged in first time then it displays "No Channel Subscription", here channel means also feed. (Figure 1)

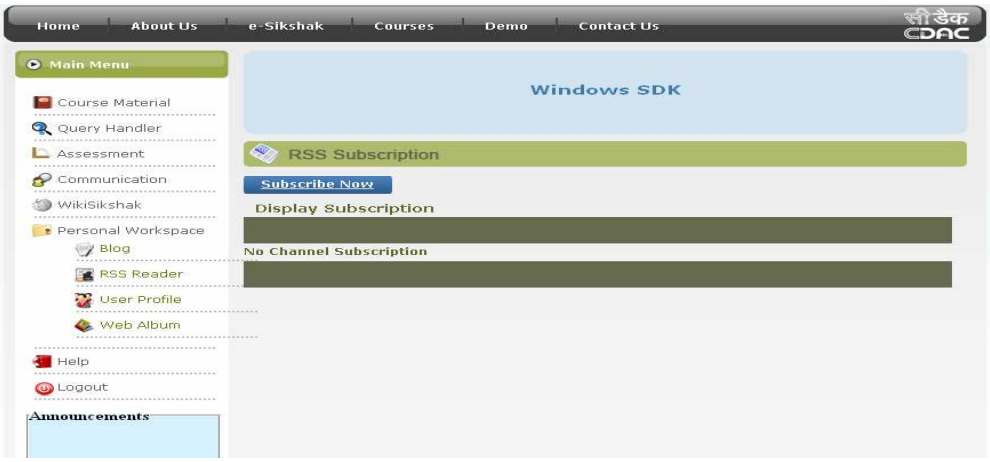


Fig 1. "No Channel Subscription"

If user has added feed/s then it displays all feed/s. (Figure 2)

Fig 2. "Display All Feeds"

Unsubscribe the feed

This functionality allows deleting a feed. If user is not interested to continue with a particular feed then user can unsubscribe (delete) that feed by the help of “Unsubscribe” link corresponding to a particular feed. (Figure 2)

Subscribe the feed / Add Subscription

The main objective of this page is to add new subscription (feed). If user has “No Channel Subscription”(Figure 1) or wants to add some more feeds then user can navigate to this page by the help of “Subscribe Now” button on first page (Display Subscription). (Figure 1)

User can add only a correct feed to input in text box and submit the form with the help of “Subscribe” button. (Figure 3)

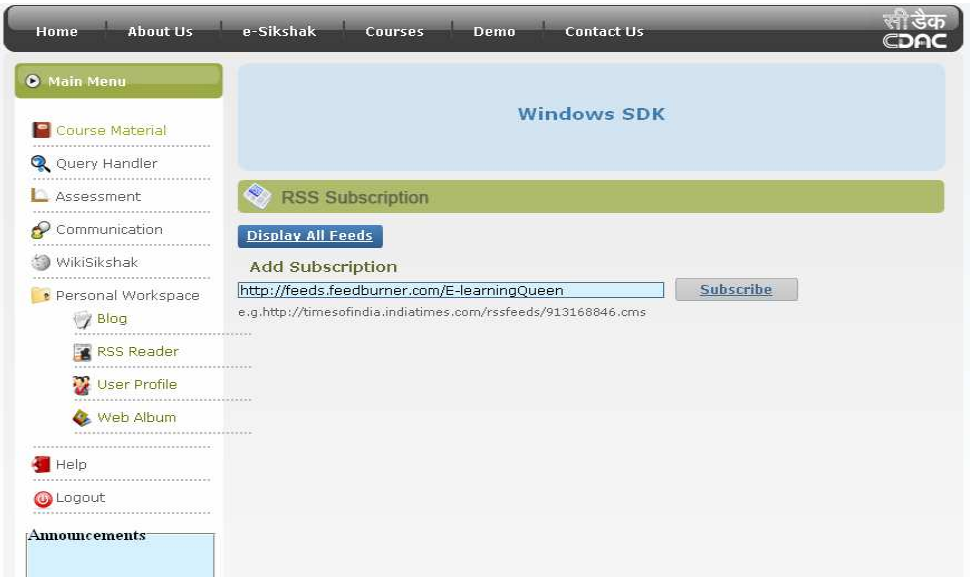


Fig 3: “Add Subscription”

After submitting the form, first page (Display Subscription) is displayed with updated new list of feed/s. (Figure 2)

User can also navigate to “Display All Feeds” page by clicking on “Display All Feeds” button. (Figure 3)

If user input a wrong feed URL or sever is not connected with Internet then the system pops up an error message. (Figure 4) and the user is directed to first page (Display Subscription) with last list of feed/s and also displays an error message. (Figure 5)

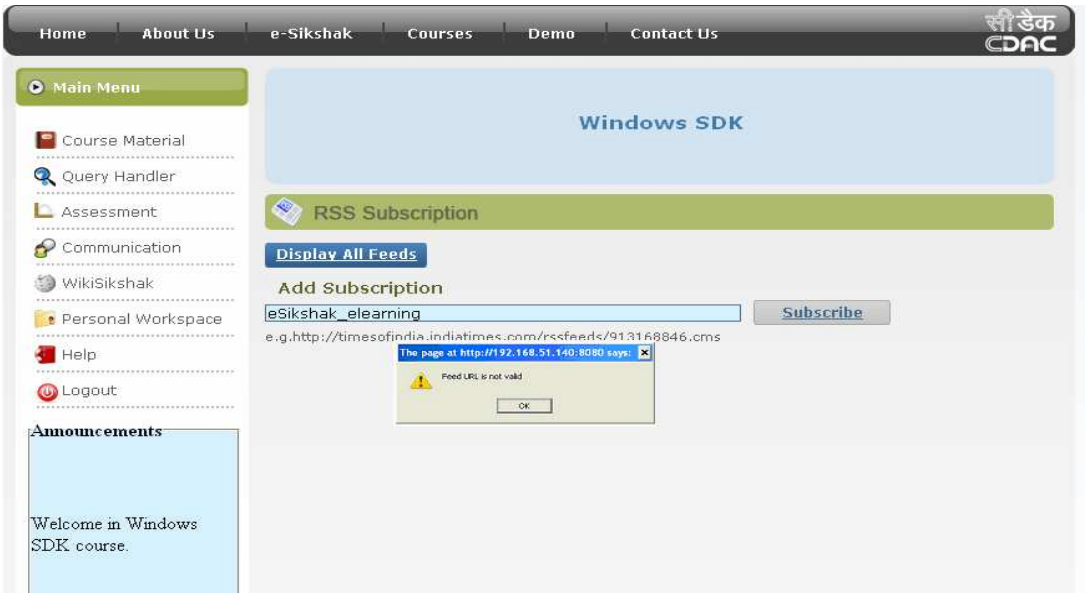


Fig 4: Wrong feed for "Add Subscription"

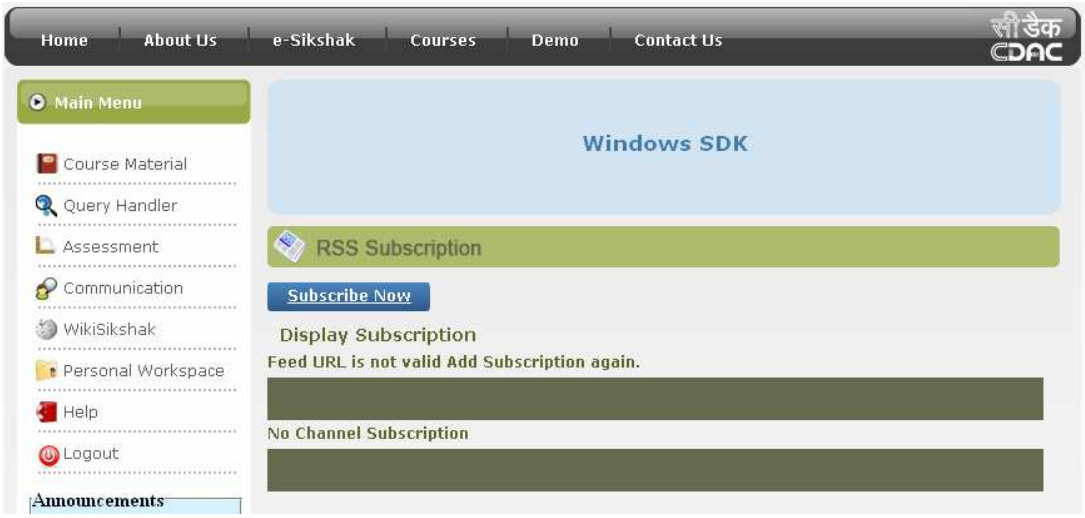


Fig 5: Wrong feed added

Subscription Content

The main objective of this page is to display all the items of particular feed. User can see all the items (information) of a particular feed by clicking on feed from first page (Display Subscription) of RSS Reader (Figure 2).

After Clicking on that particular feed it navigates to "Subscription Content" (Figure 6) with all the items of that feed.

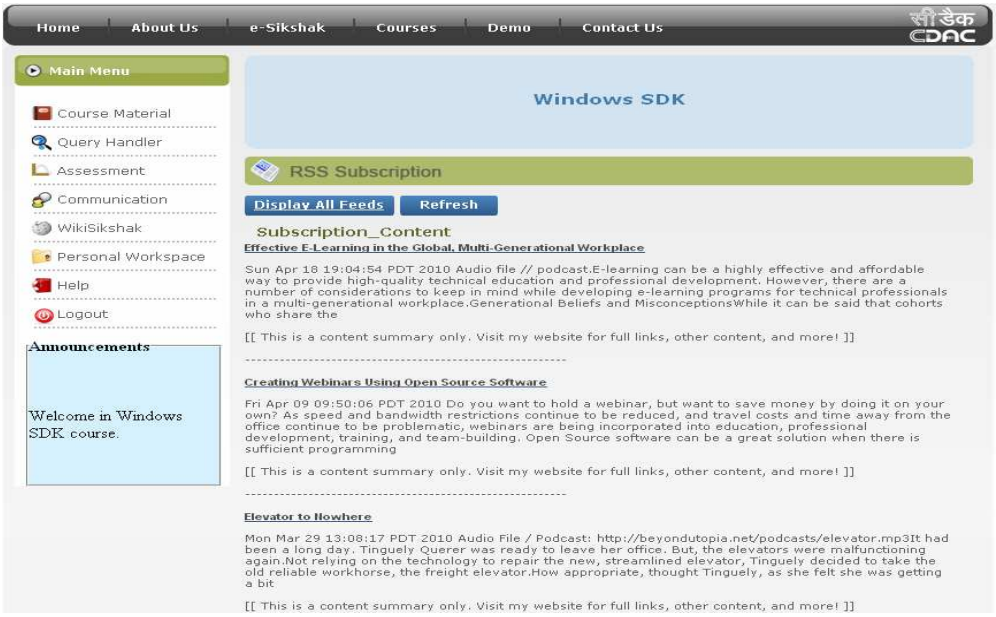

Home
About Us
e-Sikshak
Courses
Demo
Contact Us
Main Menu
Course Material
Query Handler
Assessment
Communication
WikiSikshak
Personal Workspace
Help
Logout
Announcements
Welcome in Windows SDK course.
Windows SDK
RSS Subscription
Display All Feeds
Refresh
Subscription_Content
Effective E-Learning in the Global, Multi-Generational Workplace
Sun Apr 18 19:04:54 PDT 2010 Audio file // podcast.E-learning can be a highly effective and affordable way to provide high-quality technical education and professional development. However, there are a number of considerations to keep in mind while developing e-learning programs for technical professionals in a multi-generational workplace.Generational Beliefs and MisconceptionsWhile it can be said that cohorts who share the
[[This is a content summary only. Visit my website for full links, other content, and more!]]
Creating Webinars Using Open Source Software
Fri Apr 09 09:50:06 PDT 2010 Do you want to hold a webinar, but want to save money by doing it on your own? As speed and bandwidth restrictions continue to be reduced, and travel costs and time away from the office continue to be problematic, webinars are being incorporated into education, professional development, training, and team-building. Open Source software can be a great solution when there is sufficient programming
[[This is a content summary only. Visit my website for full links, other content, and more!]]
Elevator to Nowhere
Mon Mar 29 13:08:17 PDT 2010 Audio File / Podcast: http://beyondutopia.net/podcasts/elevator.mp3It had been a long day. Tinguely Querer was ready to leave her office. But, the elevators were malfunctioning again.Not relying on the technology to repair the new, streamlined elevator, Tinguely decided to take the old reliable workhorse, the freight elevator.How appropriate, thought Tinguely, as she felt she was getting a bit
[[This is a content summary only. Visit my website for full links, other content, and more!]]

Fig 6: “Subscription Content”

User can navigate to “Display All Feeds” page by clicking on “Display All Feeds” button and refresh the items of feed by clicking on “Refresh” button. (Figure 6)

User can read full content of particular item link by clicking on heading of that particular item. It opens this feed site in new window. (Figure 7)

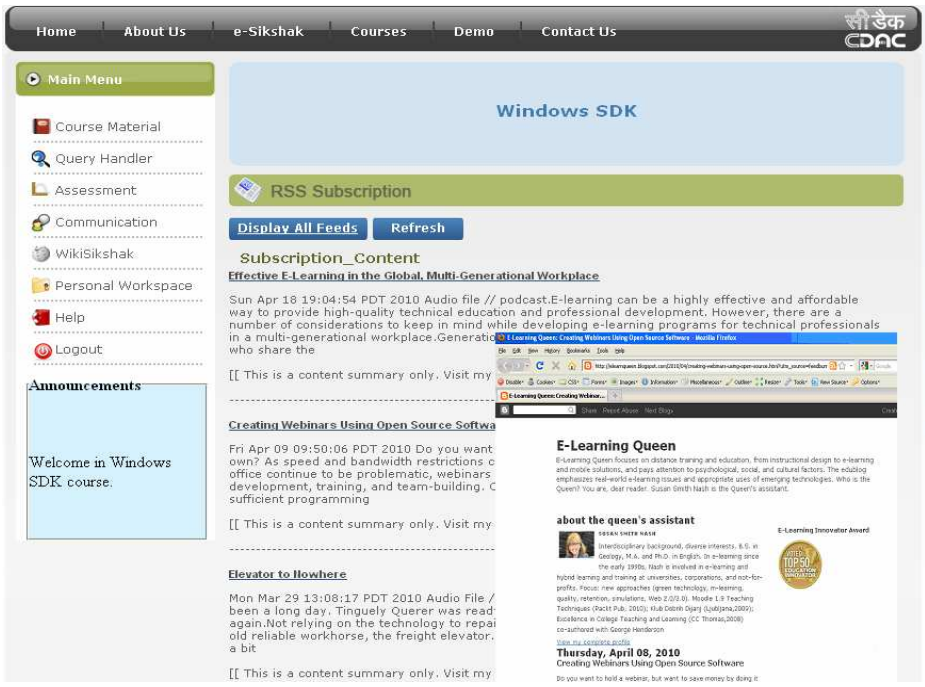


Fig 7: “View full content of item”

10. User Manual – Web Album

Introduction

Web Album is a unique tool for learners and instructors who can create their own albums & can share the albums with other users. Using this tool users can upload the content through their mobiles.

Brief Description about the functionality

Administrator will assign the privileges to other users so that they can upload the multimedia content like text file, image, audio or video files captured from their mobiles, on eSikshak server.

Web Album (Administrator Mode)

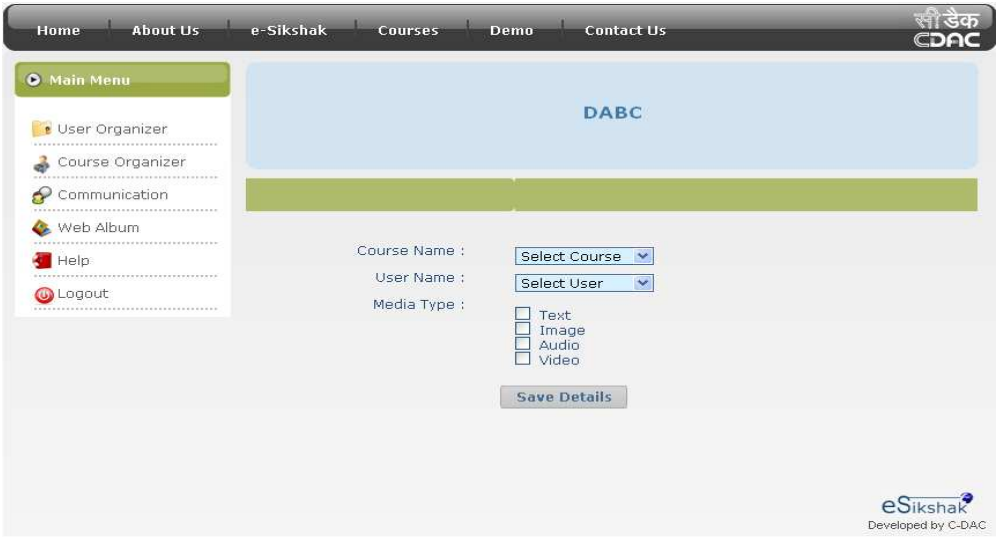


Fig 1: Web Album (Admin)

Administrator has the privileges to assign the content type to the learners and instructors.

The four content types are:

1. Text
2. Image
3. Audio
4. Video

Select the course name and user name and select the content type then click on Save Details button. Then he can restrict the user for those content types only.

Fig 2: Web Album (Admin)

Web Album Window(Instructor/Learner Mode)

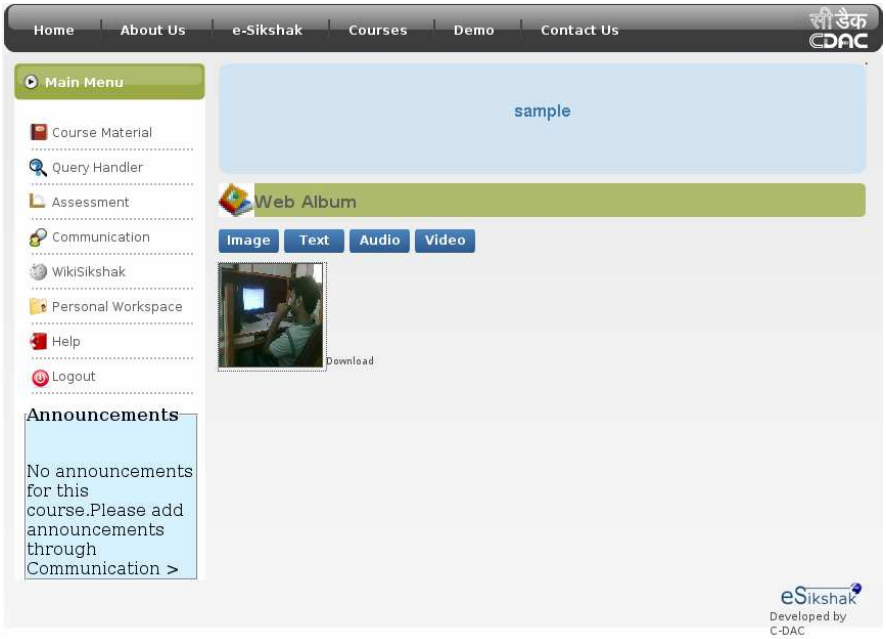


Fig 3: Web Album (Learner/Instructor)

In Web Album, the instructor or learner can see the contents, they posted earlier.

In Web Album we have four types of options. They are Image, Text, Audio and Video.

Image	-Image files
Text	-Text files
Audio	-Audio files
Video	-Video files

If he clicks on Image button it will show all images, he stored earlier. If no file exists then it displays "**NO_IMAGE**".

If he clicks on Text button it will show all Text Files , he stored earlier. If no file exists then it displays "**NO_TEXT**".

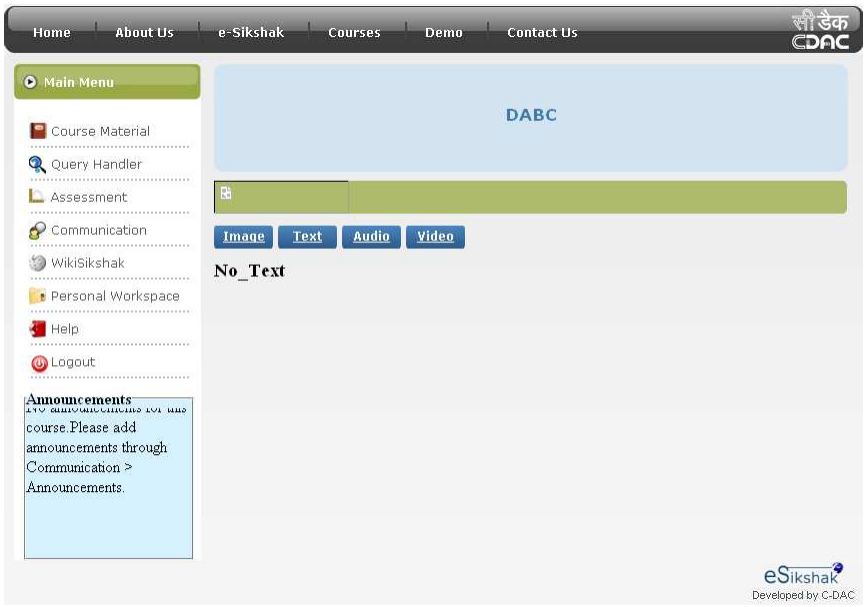


Fig 4: Web Album Text

If he clicks on Audio button it will show all Audio Files, he stored earlier. If no file exists then it displays "**NO_AUDIO**".

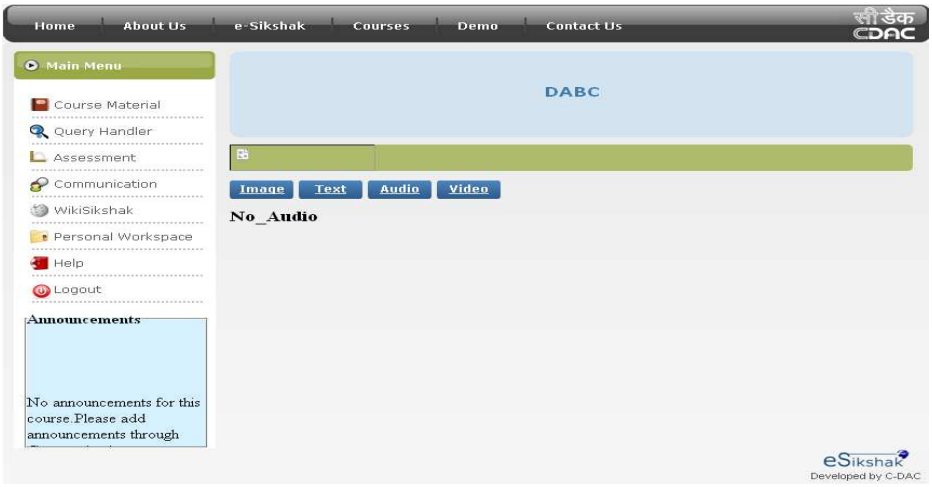


Fig 5: Web Album Audio

If he clicks on Video button it will show all Video Files, he stored earlier. If no file exists then it displays "**NO_VIDEO**". Or if permission is not there then it will show "**NO Folder Privilege**"

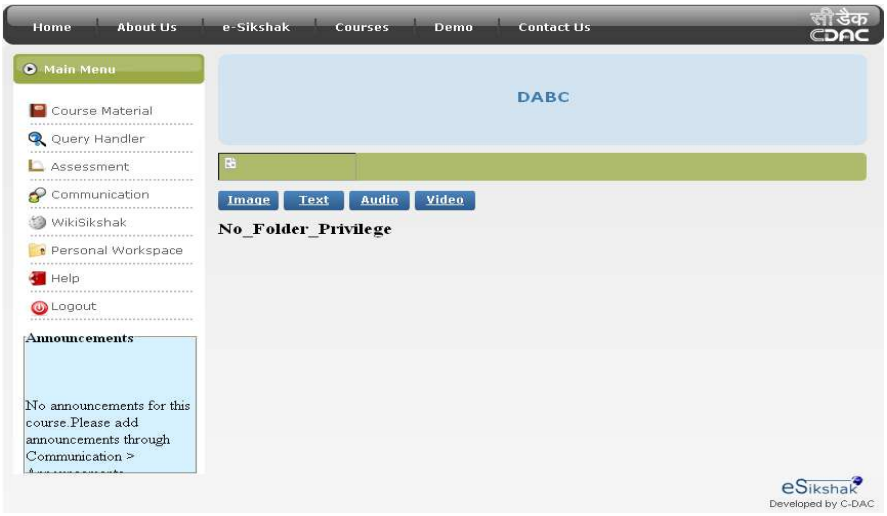


Fig 6: Web Album Video

11. User Manual – Chat

Introduction

Chat is one of the facilities given with the e-Learning tool for real time communication among the learners and instructor.

Brief Description about the functionality

The chat allows the following functionality

1. General Chat that is visible to all the learners and the instructor.
2. Instructor can create a new chat room to a particular course.
3. The instructor has a facility to block the learners and stop him/her from chat.

Chat (Instructor Mode)

Instructor can add a new chat room to a course and he can also restrict the users to stop from chat

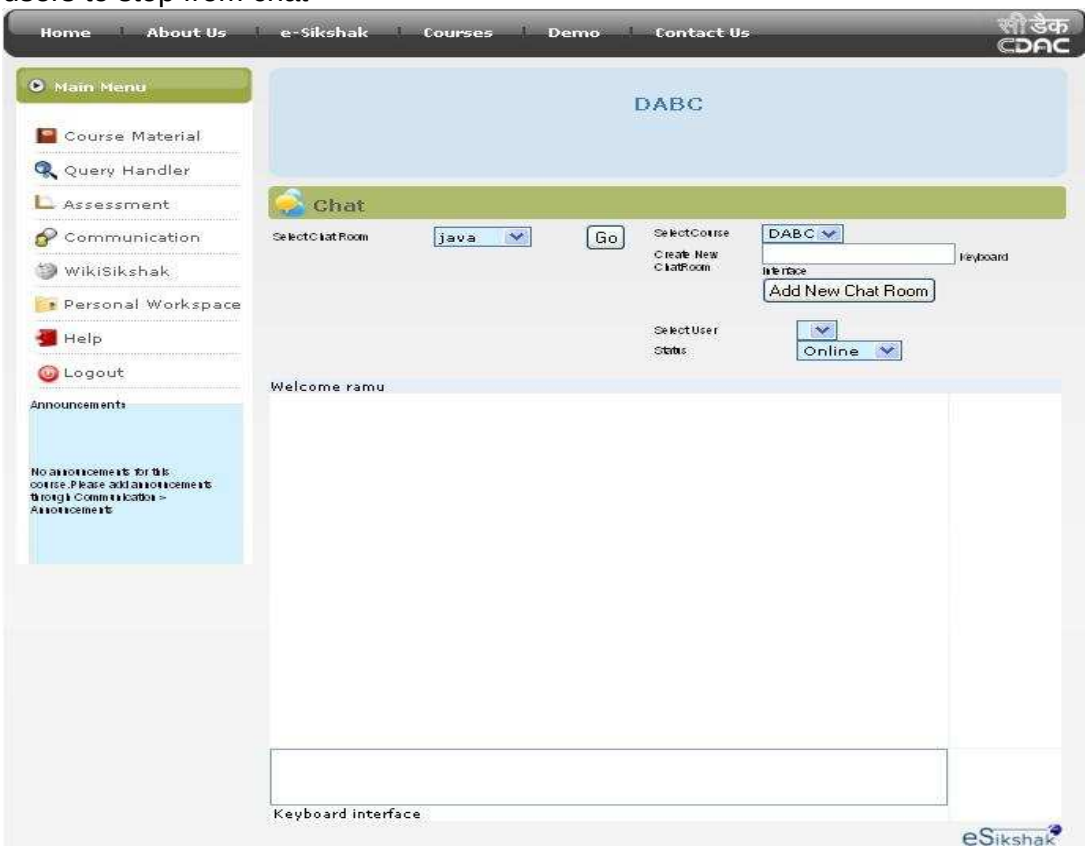


Fig 1.Chat Home Page

Select Chat Room: Select the chat room to join.
Select the Course: Select the course, to which you want to add new chat room.
Create New Chat Room: Enter the name for new chat room

After selecting the course and chat room name click on add new chat room button .New chat room is added to the chat room list.

Select User: Select the users, whom you want to restrict.
Status: Change the status of the Selected User .
Offline: User is now offline.
Online: User is now online.
Disable: User is disabled from the chat room.

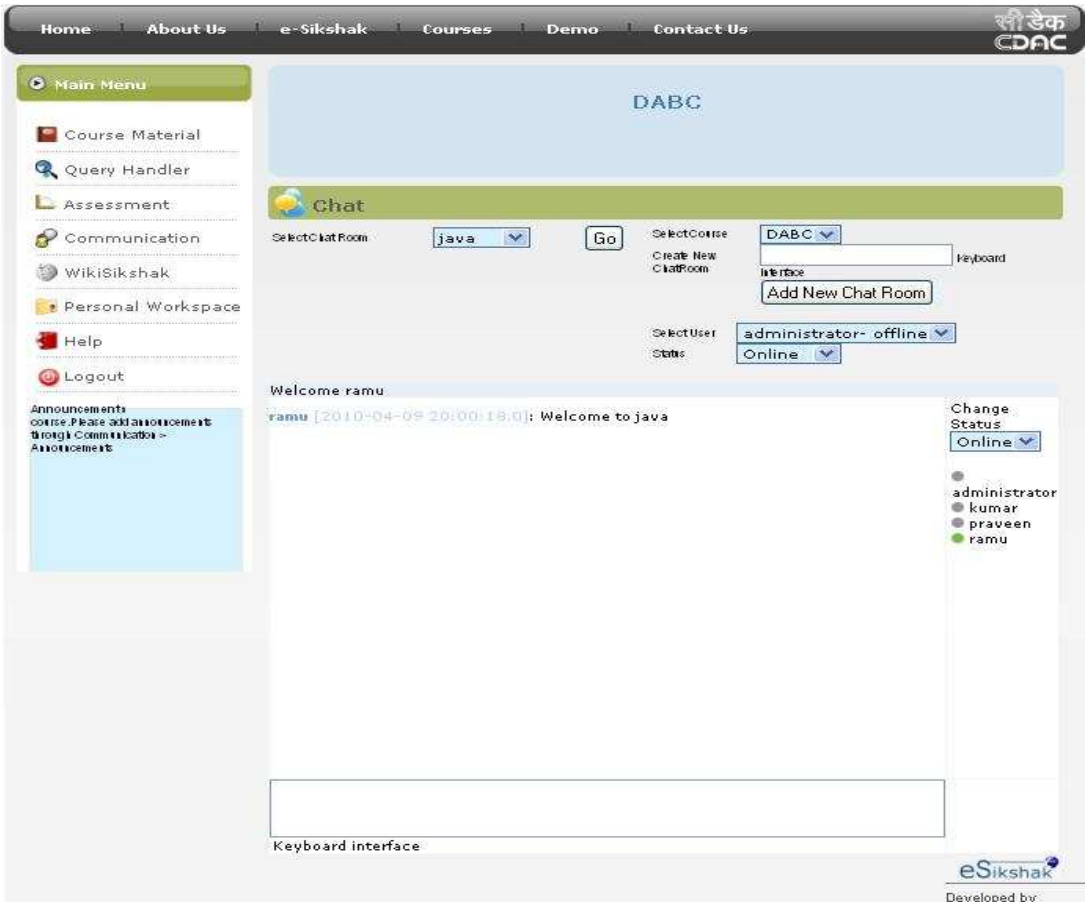


Fig 2.Create New Chat Room

Change Status

He/She can also change his/her own status with in a chat room.
Online: It displays in green color.
Offline: It displays in gray color.
Busy: It displays in red color.
Idle: It displays in orange color.

Start Chatting

He/She can enter the text messages in the text area below and press enter. The text will be displayed in the middle box to all learners who are online.

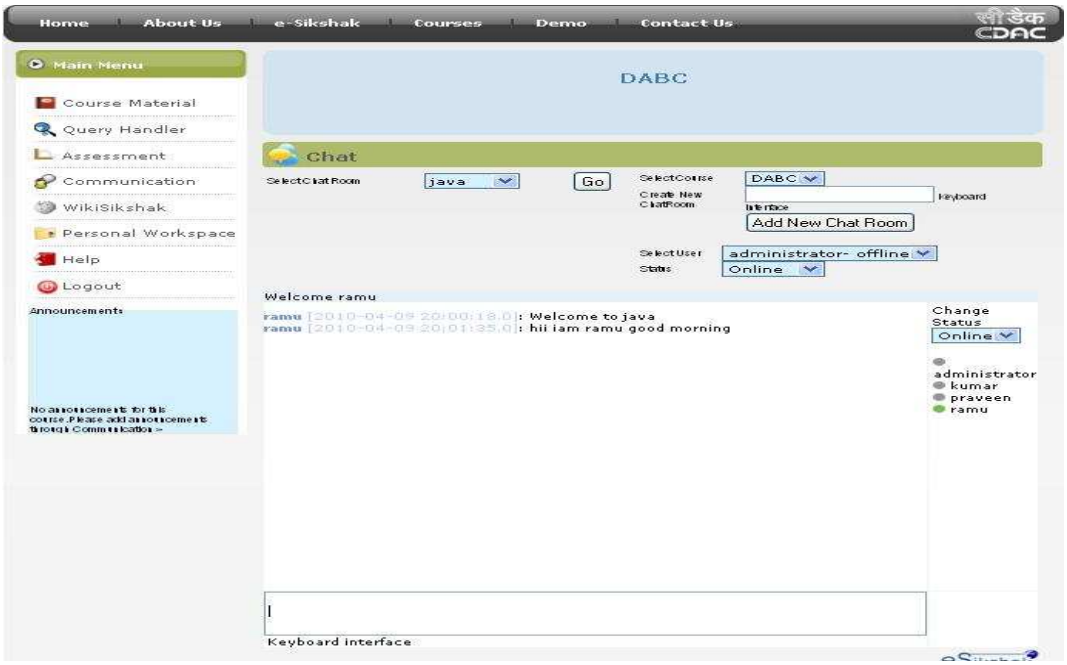


Fig 3.Chatting

Chat (Learner Mode & Administrator Mode)

Learner/Administrator can enter into the chat room by selecting the chat room. He can also change his own status by selecting from change status drop down list.

He can enter the text and press enter button to start chat.

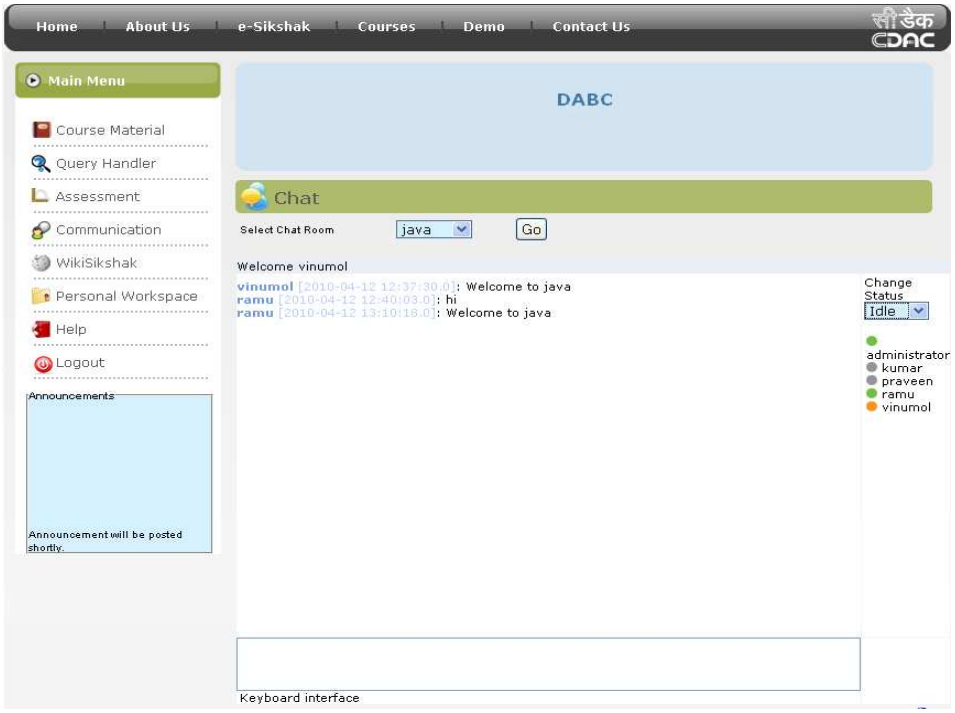


Fig 4.Chat Home Page(Learner)

12. User Manual - White Board

Introduction

Whiteboard is a drawing utility, allowing an instructor for hosting the classes over the Internet, by sharing the common drawing space. It provides synchronous communication between instructor and learners. Instructor can simulate classroom using white board functionalities.

Brief Description of the functionality

Whiteboard provides the real-time communication between learner and instructor, over the Internet that has a visual or graphical component in addition to the text-based communication. Just like a real-world Chalkboard, students and instructors can enter text, draw arrows, draw in free form, select colors, etc., which will be reflected in everybody's whiteboard. It's like virtually sharing a common drawing space.

A user can easily construct rectangles, lines, circle, freehand figures and Text. User can select different pen size to draw different shapes and the drawing will be reflected by the same size to all the user's screens. A user can select different pen colors to draw different shapes and the drawing will be reflected by the same color to the user's entire screen. User will be able to erase any part of the drawing and also will have the facility of clearing the whole drawing area.

At a single point of time only one learner can draw. An instructor will be able to draw at any point of time. User can draw a text with an option of different text size, text styles and different fonts.

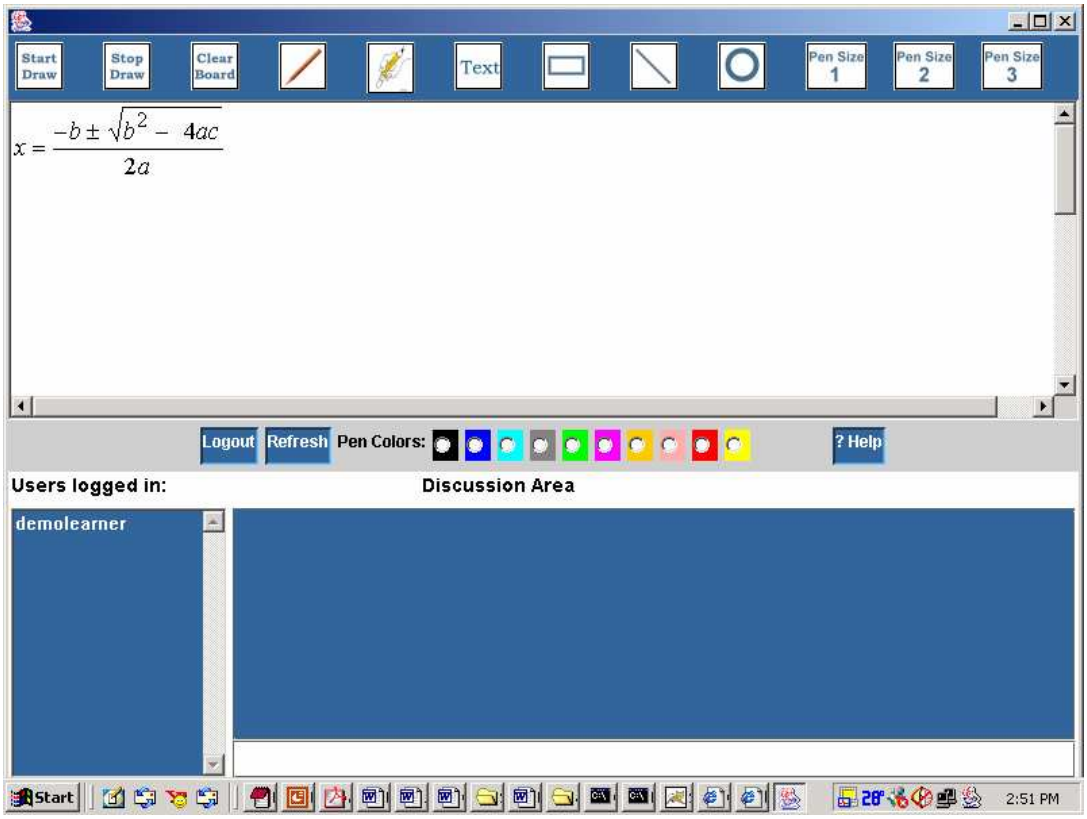
A chat facility has been provided along with the drawing area, to facilitate the instructor to explain the drawing. Different users of different courses will be able to interact in their own classes.

White board

The purpose of this screen is to make the learner and instructor to have online interacton. Different functionalities are provided in instructor and learner mode.

White board (Student Mode)

Whiteboard is being synchronized for student mode. It means that instructor will be able to draw in the whiteboard at any time, but at a time only one student will be able to draw in the whiteboard. But, if the option like “all can draw is enabled” then any one can draw at any time. An instructor will be having the control over this option.



In the student mode following options are provided:

Students have to request the whiteboard server for drawing in the whiteboard. If no other students are drawing at that time, then the control will be given to the student who has requested for the drawing. If the other student is having the drawing control, then the request will be placed in a queue in a first come, first served basis.

If the students had finished his drawing, then he need to select this option, so that control will be given back to the server, which will notify the next student to draw, whose request will be there in a queue.

This option will clear the whole whiteboard.

Freehand Drawing: This option will allow the user for freehand drawing. For freehand drawing the user needs to press the left button of the mouse and drag.

Eraser: This option will allow the user to erase or clear the part of the drawing.

Text: This option will allow the user to draw a text in the whiteboard. By clicking this option the user will get the dialog box. User has to type the text in the

text box, and then press ok. Move the cursor to the place in the whiteboard where he wants to paste that text and click.

Rectangle: These options will allow the user to draw the rectangle.

Straight Line: This option will allow the user to draw the straight line.

Circle: This option will allow the user to draw the circle.

Varieties of the pen Size: This option will allow user to select the different varieties of pen sizes.

Refresh Buttons: This option will allow the user to refresh the whiteboard. This option is useful when you are able to draw and after drawing the object it is getting disappear, then you need to press this option.

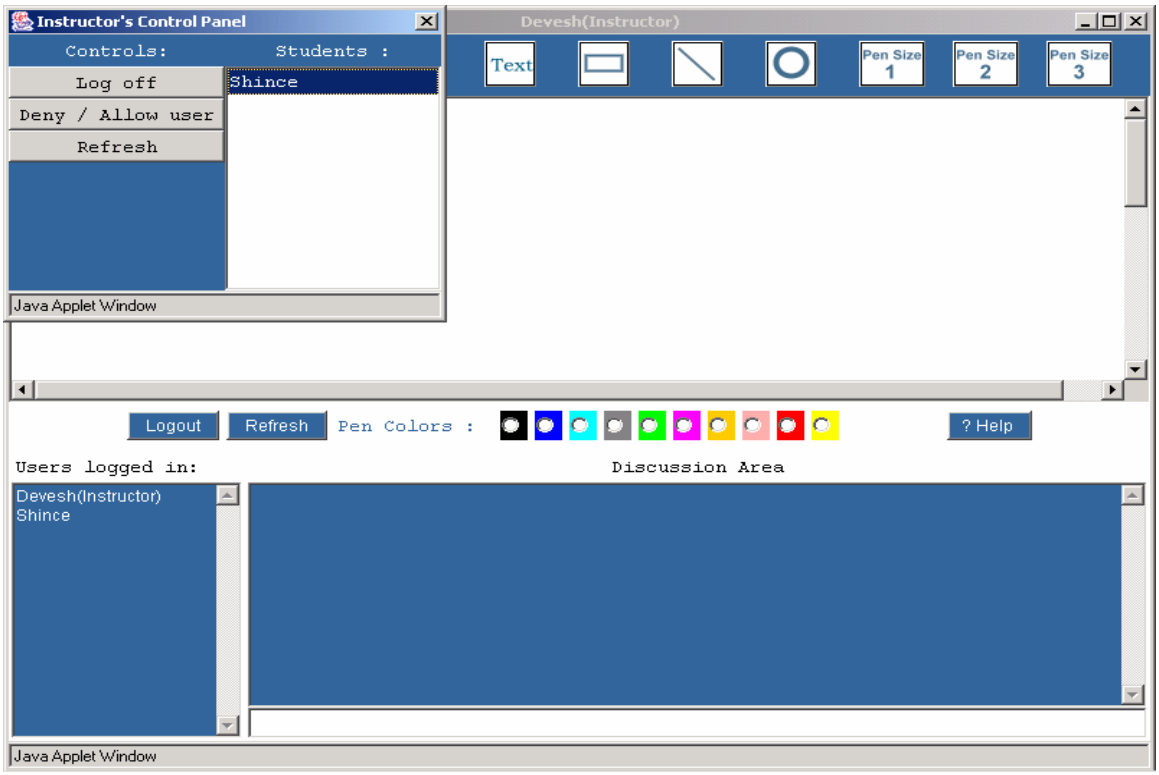
Variety of colours: This option will allow the user to select different pen colours.

Log Out: This option will logout the user and closes the whiteboard. It is recommended to close the browser window in which the whiteboard is being opened.

Discussion Area: This area can be used for textual communication.

Whiteboard (Instructor Mode)

An instructor will be having the full control on the session. He will be able to draw anytime in the whiteboard. He is the super user of the whiteboard. He will be able to log off any student, allow or deny any student to draw.



In the Instructor mode following options are provided:

This option is of less use or no use to instructor.

Control Panel: This option facilitates an Instructor with control over the whiteboard sessions. When the user selects this option a new dialog box is opened.

Dialog box will have the following options

Log off: When an instructor selects the student name from the students list and clicks the log off option, then the selected students will be forcefully made logout.

Deny/ Allow Users: This option will allow or deny the student from drawing in the drawing board.

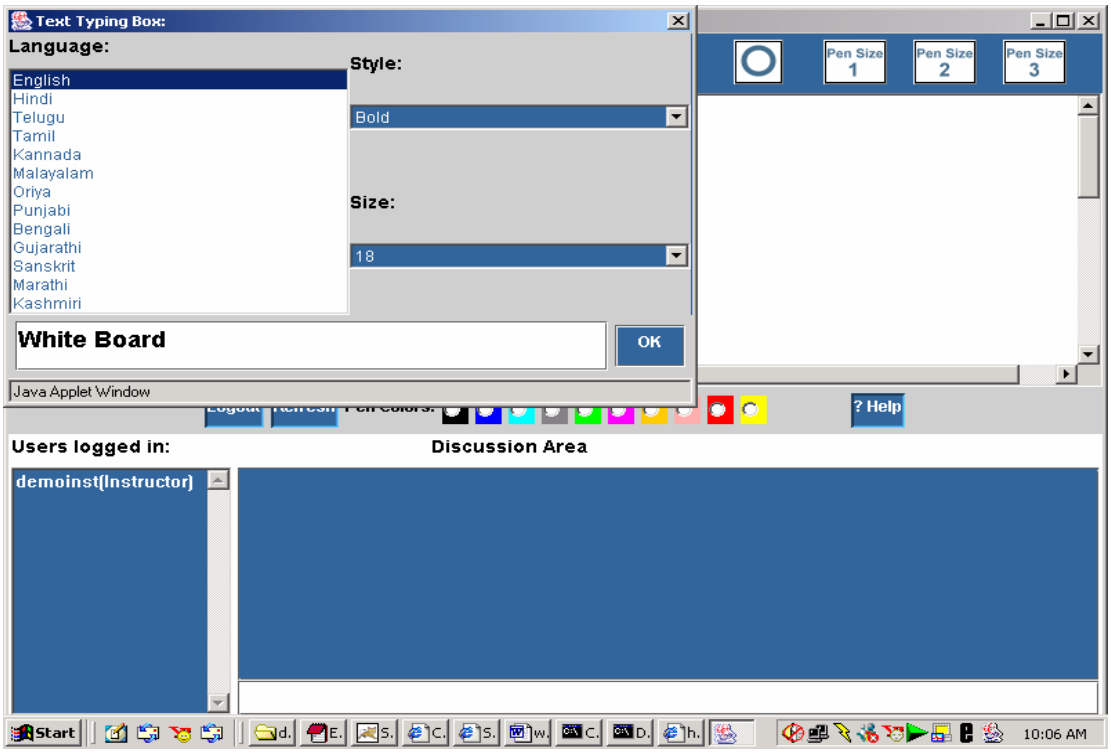
Refresh: This option will refresh the students list.

This option will clear the whole whiteboard.

Freehand Drawing: This option will allow the user for freehand drawing. For freehand drawing the user needs to press the left button of the mouse and drag.

Eraser: This option will allow the user to erase or clear the part of the drawing.

Text: This option will allow the user to draw a text in the whiteboard. By clicking this option the user will get the dialog box. User can select the language among thirteen Indian languages and has to type the text in the text box in his/her preferred language, and then press ok. Move the cursor to the place in the whiteboard where he wants to paste that text and click.



Rectangle: This option will allow the user to draw the rectangle.

Straight Line: This option will allow the user to draw the straight line.

Circle: This option will allow the user to draw the circle.

Varieties of the pen Size: This option will allow user to select the different varieties of pen sizes.

Refresh Buttons: This option will allow the user to refresh the whiteboard. This option is useful when you are able to draw and after drawing the object it is getting disappear, then you need to press this option.

Variety of colours: This option will allow the user to select different pen colours.

Log Out: This option will logout the user and closes the whiteboard. It is recommended to close the browser window in which the whiteboard is being opened.

Discussion Area: This area can be used for textual communication.

Annexure - I

Text Formatting Rules for editing the page in WikiSikshak

(Empty line)	Make a paragraph break.
----	Horizontal ruler.
[Link]	Create hyperlink to "link", where "link" can be either an internal WikiName or an external link (http://).
[a sample|link]	Create a hyperlink to an internal WikiPage called 'Link', but display the text 'a sample' to the user instead of 'Link'.
*	Make a bulleted list (must be in first column). Use more (**) for deeper indentations.
#	Make a numbered list (must be in first column). Use more (##, ###)for deeper indentations.
!, !!, !!!	Start a line with an exclamation mark (!) to make a heading.More exclamation marks mean bigger headings.
[[link]	Create text '[link]'
[1]	Make a reference to a footnote numbered 1.
[#1]	Mark the footnote number 1.
__Text__	Makes text bold.
''text''	Makes text in italics (notice that these are single quotes ('')).
{{text}}	Makes text in monospaced font.
;term:def	Defines 'term' with 'def'. Use this with empty 'term' to make short comments.
\\	Forced line break

The detailed description for Text Formatting Rules.

Writing text

Just write normal text, and then use an empty line to mark a paragraph.

Hyperlinks

The link can also be a direct URL starting with http:, ftp:, mailto:, https:, or news:, in which case the link points to an external entity. For example, to point at the java.sun.com home page, use [http://java.sun.com], which becomes http://java.sun.com/ or [Java home page|http://java.sun.com], which becomes Java home page.

Footnotes

These are a special kind of hyperlink. By using nothing but a number inside a hyperlink user can create a reference to a footnote, like this [1], which creates a footnote [1]. To make the actual footnote, user just put a [#1] where user want that footnote to point at. Look below to find the footnote.

user can also make a named footnote, just as if user was doing a normal hyperlink, such as [Footnote name|1] as another way of referring to the first footnote [Foot Note Name]. Or user can keep the custom name at the footnote itself [2].

Bulleted lists

Use an asterisk (*) in the first column to make bulleted lists. Use more asterisks for deeper indentation. For example:

```
* One \\ one and a half
* Two
* Three
** Three.One
```

creates

- One
  one and a half
- Two
- Three
  - Three.One

Numbered lists

Just like with bulleted lists, but use a hash (#) instead of the asterisk. Like this:

```
# One \\ one and a half
# Two
# Three
## Three.One
```

creates

1. One
   one and a half
2. Two
3. Three
    1. Three.One

If user want to write the list item on multiple lines, just add one or more spaces on the next line and the line will be automatically added to the previous item. For example:

* This is a single-line item.
* This is actually a multi-line item.
  We continue the second sentence on a line on a line of its own.
  We might as well do a third line while we're at it...
  Notice, however, as all these sentences get put inside a single item!
* The third line is again a single-line item for user convenience.

produces:

- This is a single-line item.
- This is actually a multi-line item. We continue the second sentence on a line on a line of its own. We might as well do a third line while we're at it... Notice, however, as all these sentences get put inside a single item!
- The third line is again a single-line item for user convenience.

Definition lists and comments

A simple way to make definition lists is to use the ';:'

;__Construct__:''Something user use to do something with''
is rendered as:
Construct
    Something user use to do something with

Another nice use for the ';:' is that user can use it to comment shortly on other people's text, by having an empty 'term' in the definition, like this:

;:''Comment here.''

Which would be seen as

    Comment here.

Text effects

user can use **bold** text or *italic* text, by using two underscores (_) and two single quotes ('), respectively. If user on a Windows computer, make sure that you are using the correct quote sign, as there is one that looks the same, but really isn't.

Preformatted text

If you want to add preformatted text (like code) just use three consecutive braces ({) to open a block, and three consecutive braces (}) to close a block. Edit this page for an example.

java.package.pseudocode.class

Tables

You can do simple tables by using pipe signs ('|'). Use double pipe signs to start the heading of a table, and single pipe signs to then write the rows of the table. End with a line that is not a table.

For example:

|| Heading 1 || Heading 2
| "Gobble" | Bar \\ foo
| Main | SandBox
gives user the following table

Heading 1	**Heading 2**
Gobble	Bar foo
Main	SandBox